# DISTRIBUTION AGE

THE MAGAZINE OF PHYSICAL DISTRIBUTION

TRANSPORTATION
WAREHOUSING
CONTAINERIZATION
MATERIALS HANDLING

A CHILTON PUBLICATION

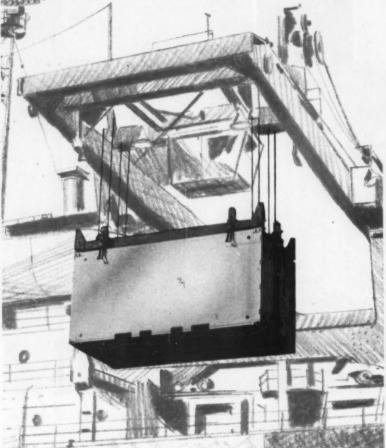
JUNE 1961

# EOUIPMI

INDUSTRIAL TRUCK SPECIFICATIONS

### NATIONAL SPEEDLOADER SYSTEM

Service Proven for Operation from Terminal to Terminal on Ships, Railroad Cars, Trucks and Barges



Time-saving containerized cargo handling is the hottest topic in transportation today. And the National Speedloader System is the talk of the industry — because it's the first and only fully engineered, fully compatible system of container handling.

Fully engineered because all components for electrical, hydraulic or semiautomatic-manual operation function as a coordinated system...fully compatible because components for lifting, stacking, securing or lashing permit use on ships, railroad cars, trucks or in manufacturing plants.

Today the National Speedloader System is the most widely used method of automatic handling of containers in all fields of transportation.

Automatic handling of containers is the Big Idea whose time has now come—and the National Speedloader System is its Big Name.

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Transportation Products Division



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Cleveland 6. Ohio

International Division, Cleveland 6, Ohio

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DISTRIBUTION AGE is published every month by CHILTON COMPANY.

Accepted as controlled circulation publication at Philadelphia, Pa. Copyright 1961 by Chilton Company, Published monthly, Subscription rates: U. S. \$10 per year; Canada \$12 per year; Foreign Countries \$15 per year. Single copies 75g each, except February Directory Number—\$5 per copy.

TRANSPORTATION WAREHOUSING CONTAINERIZATION MATERIALS HANDLING

Vol. 60, No. 6

**JUNE 1961** 

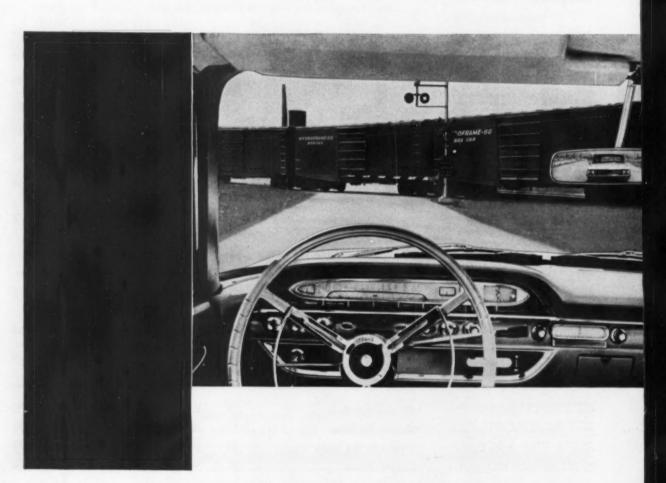
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# FORD

TESTS HYDROFRAME -60 WITH SHIPMENT OF AUTO-GLASS

Windshield, Back and Side Window Glass Shipment



■ The Ford Motor Company, in its constant search for new and better ways of transporting goods and products, cooperated with Pullman-Standard in a test shipment of auto-glass from the Ford Glass Division Plant at Nashville, Tenn., to the Ford assembly plant in St. Paul, Minn.

This shipment—in a Pullman-Standard Hydroframe-60 Box Car—arrived flawless; not one nick, chip or crack could be found in the entire 86,095 pound load. And this was after 870 miles of travel over three roads and 2 car impacts (registered at the coupler) that reached as high as nine miles per hour.

How does the P-S Hydroframe-60 protect fragile loads such as this against bruising impacts? A special underframe which incorporates the new long travel hydraulic cushioning principle takes impacts of 10 mph—and above—and literally swallows them up. They never reach the load!

For details on the Hydroframe-60, or for information on the availability of these cars for your shipments, call or write us today.

### Handled Like Grandmother's Best Crystal... Delivered Flawless

PATENTS APPLIED FOR

NINE MPH IMPACT AT THE COUPLER: NO IMPACT ON THE LOAD—Two impact recorders rode the P-S Hydroframe-60—one with the load, the other on the underframe. Two impacts topped 9 mph at the coupler (one is visible on the recording tape at right), others were at 5, 7 and 8 mph. As you can see, none of these impacts reached the load as shown by the impact recorder tape on the far left.

A 43 TON HANDLE-WITH-CARE LOAD—Ford's glass shipment in the P-S Hydroframe-60 weighed in at 86,095 pounds. Approximately 26,000 pounds of windshield glass went into the A-end and 59,935 pounds of side and rear window glass into the B-end. Condition on arrival: claim-free!



### PULLMAN-STANDARD

A DIVISION OF PULLMAN INCORPORATED

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BIRMINGHAM • PITTSBURGH • NEW YORK

J. C. FENNELLY CO., SAN FRANCISCO REPRESENTATIVE

## HERE'S ANOTHER WAY UNITED'S JET-AGE PLANNING HELPS YOU CUT SHIPPING TIME

Every United jet carries up to 14,000 pounds of freight ... at almost 600 miles an hour. United matches this jet speed with fast ground handling. The Fiberglas containers shown below were developed by United and Douglas, specifically for United's DC-8 Jet. Your shipments are pre-loaded in these containers, and lifted in and out by elevators built into the DC-8. This means your shipments are loaded and unloaded fast, with a minimum of handling. And with the same Extra Care United takes with passengers and baggage.

Other examples of United's jet-age planning on the ground include improved terminal facilities, with more loading and unloading space for trucks. And new, mechanical conveyor systems to move your shipments with speed and efficiency.

Fast handling is one reason it pays to ship via United Air Lines. Other reasons include the fact that United serves more U. S. cities by jet than any other airline. And every United passenger flight carries freight. Add United's supporting fleet of DC-6 and DC-7 Cargoliners, and you'll have an idea of the frequency and convenience United offers.

Why not put this jet-age planning to work for you? Call your freight forwarder, or United Air Lines.







Albert P. Heiner

### Heiner Honored As Outstanding TM for 1961; Nine Others Saluted for Traffic Leadership

Albert P. Heiner, vice president of public relations and traffic for Kaiser Steel Corp., Oakland, Calif., was honored recently as the Outstanding Traffic Manager of 1961.

The award was presented to Heiner by James D. Edgett, president of North American Van Lines, Inc., sponsors of the competition.

Net income of major intercity truck lines fell by 47.7 per cent last year, the ATA reports. However, gross revenues rose 3 per cent.

### Shoemaker Elected President of Warehouse Group During NARW-TRRF Convention in California

The recent National Association of Refrigerated Warehouses and Refrigeration Research Foundation Convention had registrations of 256. During the San Francisco meetings, the NARW elected Garth A. Shoemaker, of Elmira, N. Y., president.

William B. Haggerty, of Tampa, Fla., was elected vice president, and W. L. Baker, of Seattle, Wash., was re-elected treasurer. New Executive Committee members are H. M. Spradling, Carthage, Mo.; C. P. Metcalf, Austin, Texas; J. G. Snow, Los Angeles; and A. R. Carlson, Chicago.

A panel on labor relations in the refrigerated warehousing industry was held. Jack L. Dawson, executive manager, Pacific States Cold Storage Warehousemen's Association, was joined by R. A. Smarden, manager, and J. Hart Clinton, executive vice president of the Distributors Association of Northern California.

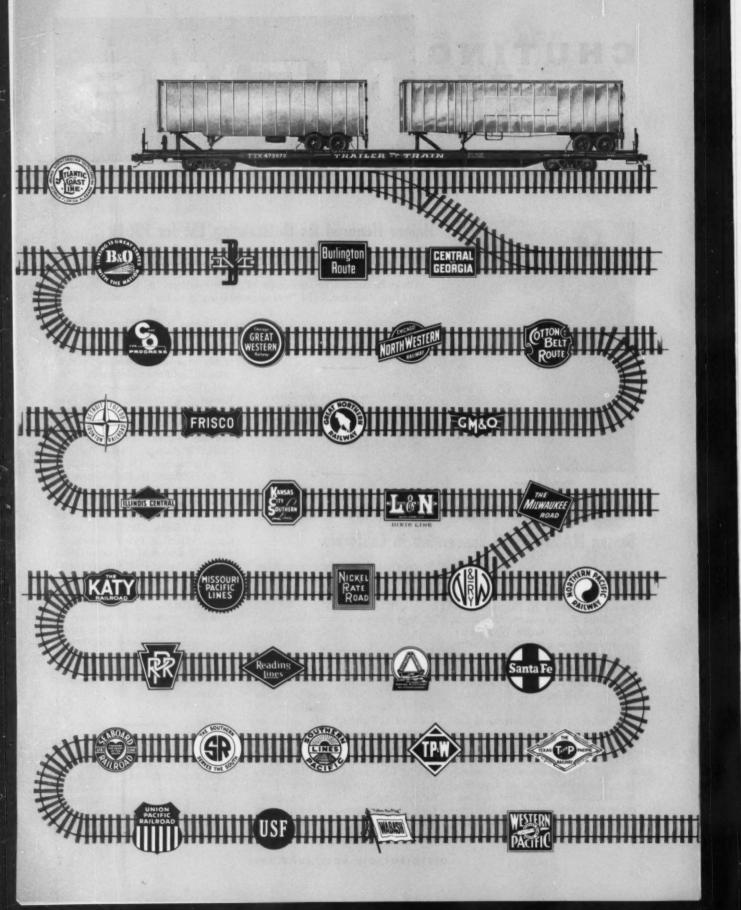
Dr. Herrell De Graff, Babcock professor of food economics at Cornell, spoke on "The Businessman's Economic Future." He spoke at the Wednesday luncheon. Several discussions were held on "Developments Affecting Your Dock Operations." Topics included "Potentiometers and Standard Thermometers," "Precooling with CO2," "Temperature Maintenance in Transit with Liquid Nitrogen," and "Defrosting Indicators."

In addition, nine other industrial traffic managers received certificates of notable achievement. They are: Harvey E. Chapman, of S. S. Kresge Co., Detroit; W. C. Cole, Georgia - Pacific Corp., Portland, Ore.; Ernest Emmrich, Hunt Foods and Industries, Inc., Fullerton, Calif.; William L. Fayle, Burlington Industries, Inc., Burlington, N. C.; Richard H. Heilman, A. O. Smith Corp., Milwaukee, Wis.; Eugene Landis, International Minerals and Chemicals Corp., Skokie, Ill.; Paul L. Mills, Producers Grain Corp., Amarillo, Texas; George E. Pratt, Traffic and Transportation Council. Chamber of Commerce of Greater Philadelphia; and James M. Stuart, The Stanley Works, New Britain, Conn.

Heiner currently is serving as chairman of the board of the American Society of Traffic and Transportation. He holds degrees from the University of Utah and the Harvard Graduate School of Business Administration.

Intercity freight tonnage hauled by truck in January was 4,794,277 tons. This is 6.2 per cent less than the volume for January 1960, the American Trucking Association, Inc., reports.

(Please turn to page 10)



# TRAILER TRAIL PIGGYBACK

### offers new speed and efficiency in nation-wide transport!

From railroad to railroad—they're always on the move!

To shippers, this means speedier delivery. To Trailer Train members, it means equipment costs are held to a minimum through maximum use of equipment. To the country in general, it means a greatly improved transport service.

You should be using Trailer Train Piggyback. Find out why it is widely acclaimed by shippers. For complete information regarding piggyback and your shipping needs, call any of the member companies listed below.

### **MEMBERS** TRAILER TRAIN PIGGYBACK SERVICE

Atlantic Coast Line Baltimore & Ohio Boston & Maine Burlington Central of Georgia Chesapeake & Ohio Chicago Great Western Chicago & North Western Nickel Plate Northern Pacific Pennsylvania

Cotton Relt D. T. & I. Frisco Great Northern

Gulf, Mobile & Ohio Reading Illinois Central R. F. & P. Kansas City Southern, Santa Fe Louisville & Nashville Seaboard Air Line Milwaukee Road Southern Missouri-Kansas-Texas Southern Pacific Missouri Pacific T. P. & W. Texas & Pacific Norfolk & Western Union Pacific

United States Freight Wabash Western Pacific

All for one-and one for all!



6 Penn Center Plaza • Philadelphia 3, Pa.



### Chuting the News . . .

(Continued from Page 7)

### Record Attendance at AWA Merchandise Group Hears Progress Report on Warehouse Industry

A record 385 members attending the 70th Annual Meeting of the American Warehousemen's Association-Merchandise Division heard that revenues were up in the industry.

C. B. Taylor, of C. B. Taylor and Associates, reported on a survey of operations among AWA members. For 48 per cent, revenues and profits

were both up in 1960. In 1959 there were only 34 per cent in this group. Revenues were up and profits down in 1960 for 25 per cent of the warehouses reporting. The comparable figure for 1959 was 21 per cent. This year, 10 per cent reported revenues down and profits up while 17 per cent had a drop in revenues and a drop in profits.

A materials handling demonstration was held to show how representative models of various manufacturers' lines will perform in warehouse situations.

"Financing the Purchase of Handling Equipment" was one of the topics taken up in the Cost Reduction Conference. Speakers were J. Shufeldt, of Automatic Transportation Co.; Tom Davis, of Gerlinger; and Harry Neumann, of Applied Handling, Inc.

W. T. Harrison, president of the National Right to Work Committee, told the warehousemen of the obstacles the average worker faces in trying to control his union. With the power they hold over all workers, he said, union leaders can control the whole country.

A new insurance program for the Merchandise Division was described by John Doggett, president, American Warehouses, Inc., Houston, Tex.

### HHG Movers See Business Up

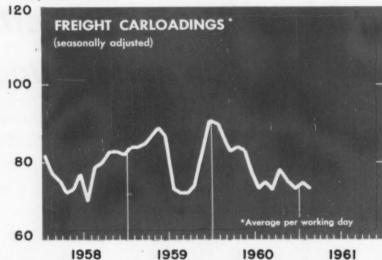
The Annual Convention of Mayflower Warehousemen's Association heard that business is well ahead of last year. John Sloan Smith, president of Aero Mayflower Transit Co., Indianapolis, predicted that 1961 will surpass 1960. Alex S. Naish, president, Al Naish Moving and Storage Co., Cincinnati, is the new president.

### **ICC Plans Diamond Anniversary**

The Interstate Commerce Commission is beginning plans for its 75th anniversary year in 1962. A committee for the anniversary under Chairman Hutchinson includes Vice Chairman Rupert L. Murphy and Commissioners Howard G. Freas and Kenneth H. Tuggle. The ICC plans to open a museum of objects from the 1880's related to the regulation of interstate transportation.

(Please turn to page 74)

Index, 1947-49=100



### Men in the News

### Traffic

T. A. Hamer—named manager of the Highway Transport Section in the Traffic Department of American Oil Co. R. A. Wilson—replaces Hamer as manager of the Highway Truck Section.

George A. Larson—promoted to the newly created position of sales and traffic manager for the Kellogg (Idaho) Operations of The Bunker Hill Co. Larson has served as traffic manager since 1948.

Raymond V. Wolf—elected chairman of the Automobile Manufacturers-Ocean Rate Committee. He is manager-traffic department of Ford International Division.

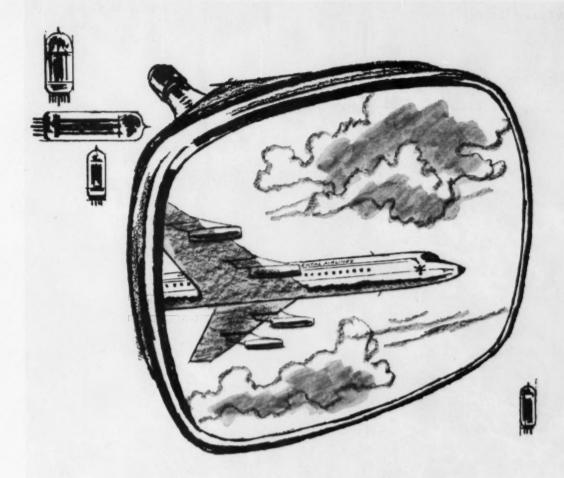
Walter L. Peter—appointed traffic manager for Trinity Portland Cement Division. His office will be located in Dallas. Dr. Gayton E. Germane — appointed directortransportation planning and research, U. S. Steel Corp. Dr. Germane is professor of trans-

fessor of transportation and management, Stanford University Graduate School of Business.

G. D. Starcher—appointed Akron warehousing and shipping division superintendent for The Goodyear Tire and Rubber Co.

H. D. Musick—named traffic manager for all corporate operations by the American-Saint Gobain Corp.

Ronald L. Willey—appointed traffic manager of Pepperidge Farm, Inc., Central Division, with offices in Downingtown, Pa.



From the Cargo Files of the most experienced jetline in the West:

# When SYLVANIA ships TV tubes, Continental's Golden Jets enter the picture!

Cutting costs is a prime aim of alert corporate management today. Sylvania reduces warehousing and distribution expense by maintaining a major distribution center near Chicago for its radio and TV picture tubes.

When orders arrive from retail distributors in the Midwest and Rocky Mountain areas, Sylvania ships via Continental Airlines. The Golden Jet 707's

assure fast, on-time arrival in the Kansas City and Denver gateways. Distributors in virtually all areas get dependable first day delivery from Chicago.

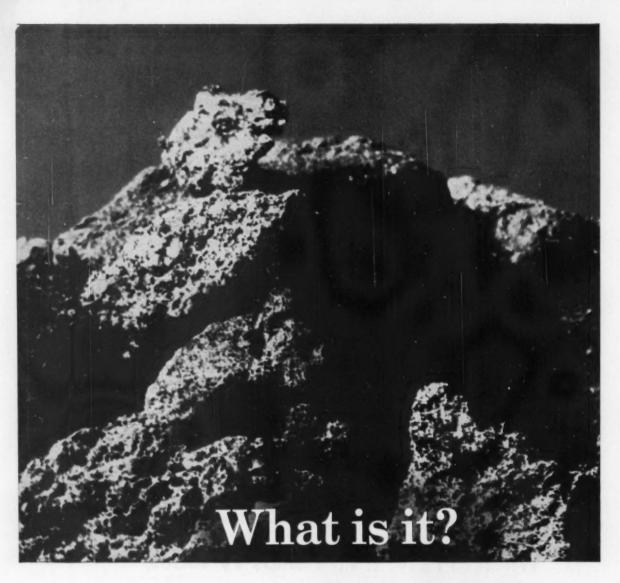
Continental offers many service advantages for shippers. Cargo is ordinarily accepted for the Golden Jets up to 45 minutes before take-off. Furthermore, you can reserve cargo space on any specific flight... at no extra charge to you.

Interested in delivery efficiency? Continental has a unique way to prove the reliability and speed of Golden Jet service to you. For information, ask your local Continental Cargo Manager or write: Mr. Lee Slay, Director, Cargo Sales, Continental Airlines,

Stapleton Field, Denver 7, Colorado.

NEWI Continental jet cargo service on the Los Angeles-Phoenix-El Paso-San Antonio-Houston route, effective June 11. Six Golden Jet flights daily between Los Angeles and Houston! Plus fast, frequent jet schedules between Los Angeles-Denver-Kansas City-Chicago.





It's not a mountain or a volcanic eruption. Nor is it an undersea reef or a sponge. It's a product the Rock Island railroad has carried millions of ton miles in the last year. The point is, no matter what you ship—whether it's a raw material like this or a finished product like an automobile—you can be sure the Rock Island will spare no effort to transport it carefully, quickly, and economically. Strategically located direct interchanges, push-button yards, split-second communications, modern, trouble-free equipment, and experienced, conscientious personnel all assure fast, efficient shipping. Your Rock Island Representative will be glad to put this effective combination to work for you. Call him.

What is it? See page 81



### **ROCK ISLAND LINES**

The railroad of planned progress ...geared to the nation's future CHICAGO 5

# On the Line-



### Wanted: Trucking Stories

Driving north on U. S. Route 9, in northeast New Jersey, we stopped at a diner for information and a cup of coffee. We sat next to a truck driver. He was such a jolly joker that we found ourself chatting with him within a couple of minutes.

When we answered his "You a traveling man?" question, he identified himself as a driver for a well-known motor carrier. "Used to be an independent," he added.

He described his early sales efforts at doorto-door peddling. "I'd stop at every plant and offer to haul anything anywhere. Some days I'd haul scrap to the junk yard in the morning and move household goods in the afternoon.

"One day, at a truck stop, I got wind of leasing and the co-op racket. That's when I started to make some big dough.

"It cost me \$200 to get in. For that, I got some papers and cards. The papers were for the shipper to sign—that he was leasing my truck. That's when I got to the traffic managers. And that's when I bought a tractor-semi. I was kept busy. When there wasn't a return load, I'd peddle my way back.

"For the guys who couldn't give me a full load, I'd sign them up with our co-op."

Puzzled by several aspects of this yarn, we started to ask questions; such as, "Didn't anybody question your operating rights?"

"Mister, what you don't understand is that I always had the right kind of papers on me to prove that I was a private or co-op carrier. Them traffic boys, especially little companies, would sign anything to cut their freight bill."

"How come you got out of that racket?"
"Well, I had a crackup one night. Rig and everything burned to ashes. After five weeks in the hospital and nine weeks at home, I was over my ears in debt. So, I took this job."

This is the nearest we ever came in contact with phony co-ops and illegal trucking. There must be many other stories that can be told. To bring this problem out in the open, we would like to publish an article combining the experiences of our readers.

Write us a letter, telling what you know about illegal trucking. We'll pay regular rates for all material published. Title your letter ILLEGAL TRUCKING. Address it to The Editor. If you don't want your name published, write "Name Confidential" after your signature. Include, if you can, lease forms and any other interesting exhibits.

### Key Year for Distribution

A good idea never dies. It may seem to but, whether it takes a decade or a generation, it will bear fruit.

Distribution management is an example. We of DISTRIBUTION AGE have been trying to sell it since World War II. There were no

Trouble was, of course, that all products were in great demand then—and for years after. Scarcity-conditioned people were not too concerned about prices. Manufacturers shrugged off rising distribution costs. Today, the situation is reversed.

It is heartening to note that the number of companies adopting the distribution management concept is increasing. Just recently, we learned of two more "blue chip" companies in the process of change to this system. These big fellows move slowly but surely.

Distribution management also is being accepted by our contemporaries to the North. Last February, the Canadian Industrial Traffic League conducted an inspiring distribution management seminar.

(A news story of this meeting in the Financial Post—a business newspaper of over 90,000 circulation—carried this bold, two-line, three-column headline: "Look For This New Man To Save You Millions.") Our good friend R. Eric Gracey, general secretary of the league, is to be congratulated.

On this side of the border, distribution management continues to hold the interest of the national traffic and transportation associations. More important, real hot fires are blazing out in the "sticks." A number of local clubs and chapters have had some excellent physical distribution seminars. Many more are scheduled—locally and nationally.

To miss these meetings is to fall behind the times. This is a key year for progress in distribution management.

Acrone 10101



AMERICAN STEVEDORES' lift trucks sometimes work 'round-the-clock to help cut ship "turn-around" time. Loads range up to 8,000 pounds. Turns are tight and piers are often littered with scrap. The company's dollar-saving tire choice: the B.F.Goodrich Steel Protected industrial pneumatic.

# CARGO SAILS SMOOTHLY on B.F. Goodrich industrial tires

# FOR 20 YEARS AMERICAN STEVEDORES HAS PUT BFG TIRES TO WORK ON THE WATERFRONT IN NEW YORK

A fleet of 650 lift trucks rumbles along the miles of docks in Brooklyn, Newark and Manhattan, keeping cargo on the go between ship and warehouse. The fleet is operated by American Stevedores, Inc., who for 20 years have elied on B.F.Goodrich industrial tires to speed freight handling.

A FREE B.F. Goodrich TW Analysis can save you as much as 50% on industrial tires, as much as 20% on maintenance costs. Mail the coupon today.

The B.F.Goodrich Company
Dept. TW-842, Akron 18, Obio

Please send me additional information on your free Tire
and Wheel Analysis Plan.

Name
Company
Street
Zone
State

The B.F.Goodrich Tire and Wheel Analysis Man keeps tabs on tire performance—recommended a switch to new BFG Steel Protected pneumatics when scrap materials on docks started causing problems. The Steel Protected industrial tire is built with 2 plies of steel cable under the tread. These cables shrug off tire-killing impacts and punctures. American Stevedores reports B.F.Goodrich tires give an average of 2½ years' service on the original tread!

Why not take advantage of the dollar-saving services B.F.Goodrich Tire and Wheel Analysis Men offer. Without cost or obligation they'll study your materials handling setup—then recommend the tires that will give longest service at lowest cost. This advice is unbiased because B.F.Goodrich makes a complete line of industrial tires.

Are you getting the most service possible for your tire dollars? If you have any doubts, mail the coupon. The BFG Tire and Wheel Analysis Service is free. A special BFG consulting service is available to manufacturers of materials handling equipment.

Specify B.F.Goodrich tires when ordering new equipment

B.F.Goodrich



### CONTAINERIZATION ... PACKAGING

### Composite containers cut packaging costs for chemical firm

A 60 per cent reduction in initial container cost is only part of the pattern of over-all low packing-handling-shipping costs at the Mobile, Ala., warehouse of F. H. Ross and Co., chemical firm with headquarters in Charlotte, N. C.

By converting, where possible, to the use of relatively inexpensive composite containers consisting of 15-gal. polyethylene drums in octagonal protective wirebound overwraps to replace 13-gal. glass carboys in heavy wood cases, R. M. Counts, Mobile branch manager, and Thomas Mattis, warehouse manager, brought about many economies.

Initial container cost reduced by over 60 per cent; pallet capacity increased by over 125 per cent in gallonage and doubled in number of containers; storage area needs reduced appreciably by being able to high-stack loaded pallets; and shipping container tare weight reduced 77 per cent, or from 70 to 15.5 lb per container.

### Plane Helps Ship



That the show must go on was evident when a 23,000 lb ship's crankshaft was loaded aboard an American Airlines airfreighter recently for shipment to San Francisco. From there it was flown by Pan American to Japan to replace a broken crankshaft in a crippled freighter



Polyethylene drums in octagonal wire-bound over-wraps being acid filled





Fork truck high-stacks pallets loaded with composite packs in warehouse

Drums will be filled with acid by

Chemicals distributed by the Mobile warehouse are shipped there from the manufacturers' plants by tank trucks or tank cars. Carboys or drums standing on pallets are filled beside the bulk carriers.

A pallet accommodating only six square 13-gal glass carboy cases holds 12 snugly nesting octagonal composite wirebound-polyethylene containers. Thus, pallet capacity is doubled as to number of containers, but gallonage capacity is increased from 78 to 180 gal., or over 125 per cent.

The new octagonal wirebound over-wrap is engineered so that the protruding neck of its cylindrical polyethylene drum is just below the level of the end cleats. This permits pallets loaded with filled containers to be highstacked securely. At the Mobile warehouse, they are stacked four high, as high as the ceiling permits.

The filled containers are shipped by common carrier, mostly trucks to F. H. Ross and Co. customers over a wide area.

Mattis and Counts agree that customer reaction to the octagonal wirebound composite container with increased capacity and lower tare weight is highly favorable. Besides reduced freight charges due to the lower tare weight customers who receive the containers in considerable numbers profit from more economical handling and storing.

Polyethylene drums are by Delaware Barrel and Drum Co., octagonal wirebound over-wraps are by Wirebound Box Division, St. Regis Paper Co.

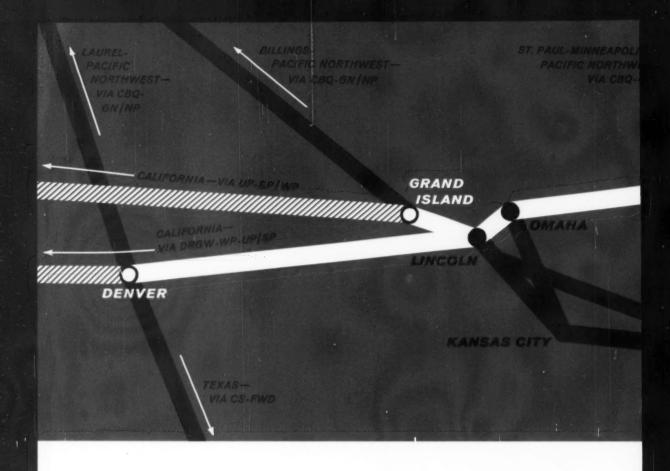
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ship Via BURLINGTON

Through trains | Direct service | Schedules second to none

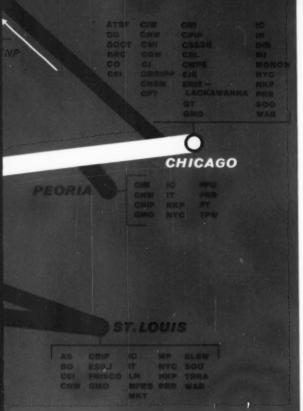


Between Chicago and any West Coast point, Burlington offers unexcelled freight service . . . westbound or eastbound. Check the map . . . check the connections . . . check the schedules.

Then call your Burlington Freight Representative—and get the dependable, high-speed transportation you're entitled to!

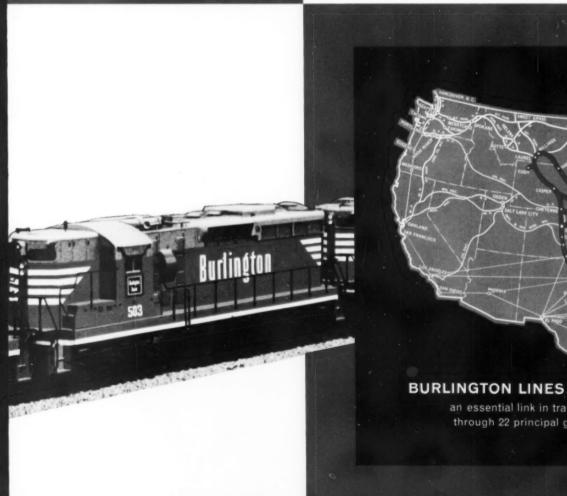






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faster freight service...

# hip via LINGTON!



incipal gateways and more than 200 interchange points

### **SCHEDULES**

### FROM CHICAGO

via

### Denver or Grand Island

DESTINATION

DELIVERY

DENVER

Second morning

SALT LAKE CITY

Third morning

SAN FRANCISCO

Fourth morning

LOS ANGELES

Fourth morning

via

### St. Paul-Minneapolis

DESTINATION

DELIVERY

ST. PAUL-MINNEAPOLIS First morning

SPOKANE

Fourth morning

TACOMA

Fifth morning

SEATTLE

Fifth morning

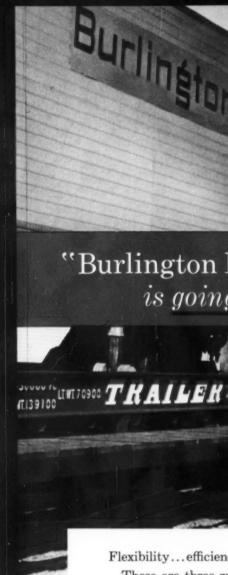
**PORTLAND** 

Fifth morning

VANCOUVER, B.C.

Sixth morning





These are three re on-Flatcar transporenthusiastically use dustry. The Burling affiliate, Burlington teamed up to deliver ibility, efficiency, an

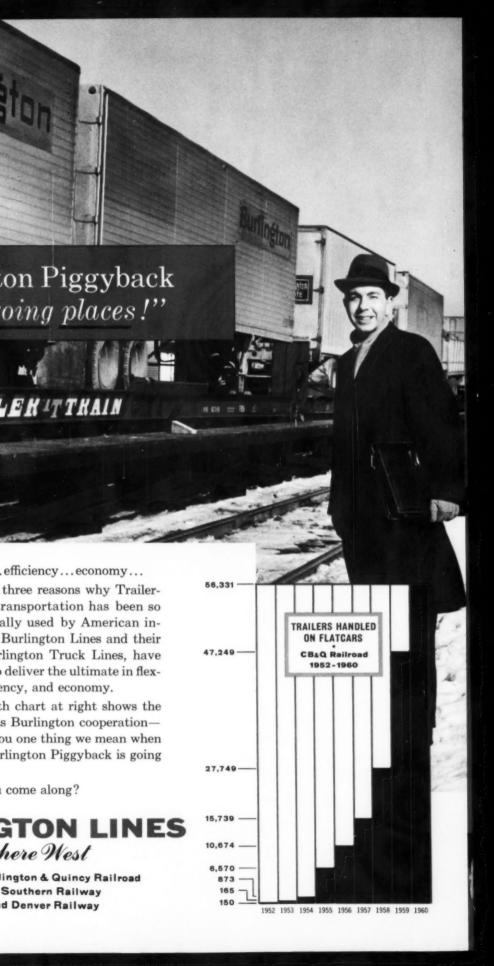
The growth chart effects of this Burlir and shows you one t we say, "Burlington places."

Won't you come a

### BURLINGTO

Everywhere

Chicago, Burlington & Colorado and Souther Fort Worth and Denve







Williams and Company, Inc., Consulting Architects/Schauder and Martin

# New way to save big when you build big

### **NEW BUTLER MRF BUILDINGS**

The age of industrial monuments is ended. Buildings today are engineered to capital conservation and inevitable obsolescence. With these considerations in mind, we invite you to investigate the new Butler MRF – the building system that supports management aims.

Precision factory-fabricated to give you quality control in every detail. Spacious interiors with a minimum of strategically placed columns. Modules of 40′, 50′, 60′ or 80 feet. Bay lengths of 20′, 24′, 30′ or 40 feet. Roof spans up to 240 feet without internal gutters. A metal roof deck so good we can guarantee the roof for 20

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### Warehouse Labor Committee

TO THE EDITOR:

Warehousing operators and all industry have a common interest in the most vital question of the day, namely labor, brought vividly to the attention of the United States by the recent strike of 660 tugboatmen in New York Harbor, by setting picket lines around Grand Central Station. Also by halting transportation on the New York Central Lines all the way to Chicago in addition to crippling the Port of New York and bringing untold hardship to practically 7,000,000 people.

The strike concerned two demands: Five tugboatmen must be employed to do the work of three, that all 660 tugboatmen get lifetime guarantees of their present jobs. The Goldberg-imposed settlement continues the status quo for a year, requiring five to do the work of three and postponing the lifetime guarantee issue.

In June 1959 The Erie-Lackawanna and Long Island railroads decided to wipe out every one of these jobs (oilers) and gave notice. There was no need for oilers aboard diesel engine tugs said the railroads. Oilers, though they work for the railroads, are members of Teamsters Local 518—the Marine Employes Union, Hoboken, N. J. When the companies gave notice, the Teamsters struck.

The case was taken to the U. S. Supreme Court and was sent back to a lower district court. The railroads

Teamsters struck.

The case was taken to the U. S. Supreme Court and was sent back to a lower district court. The railroads and the local decided to negotiate. After almost a year and a half they agreed that all oilers who had been on the job would have lifetime job security. They never could be fired or layed off.

When the deadline came for action by other harbor unions which supply crews for the harbor tugs of 11 rail lines here, the Seafarers International Union noted this precedent well. The 11 railroads wanted to drop two crew members. The Seafarers and their fellow unionists struck. This, too, was only the beginning.

The Teamsters precedent has also been noted by another labor organization—Marine Division of the National Maritime Union which mans the regular harbor tugs. Its contract expired Feb. 1. If there is an NMU tugboat strike, all harbor movements will undoubtedly stop, since all other Unions—regardless of pacts previously made—will respect NMU lines.

Such a stoppage will affect most of the Nation. And if railroads attempt to divert freight to other Gulf or Atlantic Ports, NMU picket lines would follow the freight.

There could always be a compromise. Look at what

Atlantic Ports, NMU pieket lines would freight.
There could always be a compromise. Look at what happened when the Teamsters quietly set a precedent for a handful of oilers on the tugs.
Every industry is vitally involved in this issue. Write to your senators and congressmen to change the secondary boycott law. Laws against threatened violence must be enforced. The remedy is not to increase government power in labor disputes, since labor can control the government.

Warehouse Committee The Traffic Club of Newark, New Jersey

### Watch DISTRIBUTION AGE's July issue for . . .

'A Directory of Industrial Districts'

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DISTRIBUTION AGE, JUNE 1961

### "We wish there were more YOCAR SAFE-CARGO cars in service on more railroads"



"These YOCAR-equipped cars have proved their worth in reducing transportation damage drastically. They are an efficient car for loading and have been well received by all our consignees. We can't tell you much more except to say we wish there were more in service on railroads."

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Traffic Manager, Transportation Services, Kimberly-Clark Corporation

These "Safe-Cargo" cars have flush walls and hundreds of anchoring stations, use minimum dunnage, have no loose parts and equipment, and can handle all types of lading. They save loading and unloading time and help shippers and receivers save thousands of dollars every year.

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Youngstown Steel Car Corporation NILES, OHIO

### **Coming Events**

June 1-2-American Society of Traffic and Transportation, Illinois Chapter, Physical Distribution Seminar, Sheraton-Chicago

Distribution Seminar, Sheraton-Chicago Hotel, Chicago, Ill.
June 1-3-Materials Handling Equipment Distributors Assn., National Convention, The Denver Hilton, Denver, Colo.
June 25-29—American Trucking Associations National Accounting and Finance Council, The Denver Hilton, Denver, Colo. June 28-30 — International Truck, Trailer, and Equipment Show, Brooks Exhibit Hall, San Francisco, Calif.
July 25-27—Air Freight Cartage Conference, Edgewater Beach Hotel, Chicago, Ill.

Sept. 17-20-National Defense Transportation Assn. Transportation and Logistics Forum, The Denver Hilton, Denver, Colo. Oct. 3-5—National Assn. of Shippers Ad-

visory Boards, Statler-Hilton Hotel, Buf-

Oct. 7-10—Conveyor Equipment Manufacturers Assn. Annual Convention, Ponte Vedra Beach, Fla.

Oct. 8-13-American Trucking Assn. National Convention, Sheraton-Carlton Hotel, Washington, D.C.

Oct. 18-20 — Packaging Institute Annual National Forum, Biltmore Hotel, New

York, N.Y.
Oct. 19-21—Southeastern Warehousemen's
Association Meeting, Tampa Terrace, Tampa, Fla.

Oct. 23-26-Private Truck Council of America's Fleet Maintenance Exposition, New York Coliseum, New York, N.Y.

### Warehouse Stores to Top



new warehouse with floor-to-ceiling stacking enables Midland Cooperatives, Inc., to store twice much merchandise as was possible in a multi-story building of com-parable size. The new building holds approximately 12,000 kinds of items from oil drums to farm supplies. Pallets are stacked 16 ft high by eight Clark fork trucks some of which are equipped with triple-stage uprights



THE ROUTE OF COURTEOUS SERVICE



PLAN TRANSPORT CHANGES — Recommendations for changes in the current government transportation system are expected to begin flowing to Congress soon. The recommendations will be in addition to changes already suggested by the President in all regulatory agencies. In the earlier message, the President asked for changes to insure greater coordination between various agencies and for increased direction from the White House.

MAGNUSON HITS ICC-Interstate Commerce Commission is under sharp criticism by Sen. Warren Magnuson, D., Wash., chairman of the Senate Commerce Commission. The Senator accuses the ICC of being "a group of apologists for a deteriorating system." He also charges the commission has failed to implement the National Transportation Policy, contending Congress did not intend that "unrestrained competition live until interstate common carriage died, (nor that) decisions be delayed because they were tough to make." He says his committee will work with the White House to give all forms of transportation "the decisive, efficient, far-thinking regulatory pattern they deserve." However, the senator is opposing creation of a single transportation agency to replace the ICC and other transport agencies.

STUDY TRANSPORT STATISTICS — The government's transportation statistics are likely to be overhauled. A House subcommittee on census and government statistics is now gathering background information on these figures. It plans to hold public hearings later in the year. "The need for improvement in transportation data is recognized by both public and private users," comments the subcommittee chairman, Rep. John Lesinski, D., Mich.

SEEK JOINT RATES—Criticism is mounting in Congress of the alleged failure of the ICC to require water carriers and railroads to establish joint rates and through routes. Sen. Stuart Symington, D., Mo., charges the ICC appears to have "condoned" the evasion of a congressional directive in the Transportation Act to set such rates. He is asking for an investigation.

ECONOMIC RECOVERY SEEN—Business will be well into a recovery by mid-year. This is the latest forecast of top government economic advisors. Most of the upturn will be before President Kennedy's anti-recession measures take hold, but they'll help speed the pace later in the fall.

DEMAND MORE ROAD MONEY—The Kennedy Administration is fighting hard to get the extra revenue needed to complete the highway program on time. It prefers the higher levies on heavy trucks, diesel fuels, tires and tubes. But it will settle for a ½-cent rise in the gasoline tax. Congress is being told that it will not accept a stretch-out in the road-building program, or taking the extra money from general government funds. Highway users, particularly the trucking industry, are pouring mail to Congress opposing the added user taxes on highway users.

GRANT POWER TO REORGANIZE—President Kennedy now has the power to make sweeping changes in the federal regulatory agencies, such as the ICC, without specific congressional approval. The lawmakers have given the White House power to make changes which become law if not vetoed by either house of Congress within 60 days. It is similar to authority granted the chief executive in 1949, but allowed to expire two years ago.

VEHICLE RENTALS CLIMB—The truck and car rental business continues to expand. Results of the 1958 census of business show that: Trucks in daily rental totaled 14,800 and those on lease 52,635; truck-tractors in daily rental 1700 and on lease 8000; trailers and semi-trailers on daily rental 2500 and on lease 11,000; passenger cars on daily rental hit 45,500 and on lease 122,100, and utility trailers for rent or lease totaled 40,100.

TAX BREAK POSSIBLE—Business firms, including those in transportation, warehousing, distribution, may get a \$1.7 billion a year tax break. Tax savings would go to firms which buy new equipment. Congress appears likely to go along with the President's plan. (It would delay major depreciation reform at least a year.) All firms except utilities could get a tax credit of 10 per cent of the first \$5000 of new plant and equipment expenditures; 15 per cent of spending above their current depreciation allowances; or 6 per cent for spending above 50 per cent of current depreciation.

RAILS MAP FIGHT—Nation's railroads are mapping an all-out fight for measures and actions to help them in the battle for business. They want ICC approval of merger proposals, Congress to permit them to own other modes of transport, grant faster tax depreciation on equipment, repeal the passenger excise tax, and continuation of the government's loan guarantee program.



### TWA flies where the BUSINESS is!

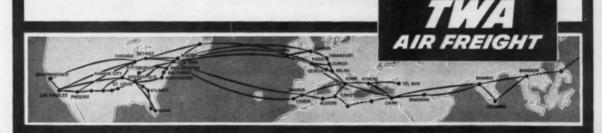


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# **NEW PRODUCTS**

THIS IS the key to DISTRIBUTION AGE's new rapid service for readers. For complete details on these products write to the

EDITOR, DISTRIBUTION AGE, 56th and Chestnut Sts., Philadelphia 39, Pa.,

on your company letterhead.

BE SURE TO SHOW the . . .

TITLE of the item and the product NUMBER.

### Dunnage Pole



The O'Brien Engineering Co. has a new lightweight cargo lock called Load-Loc. It will lock any size load. It is held securely in place by a simple spring mechanism and can be unlocked by releasing the spring handle. Rubber pads on the end flanges prevent slipping and damage to interiors on roughest roads. This lightweight (14 lb) lock can be used for intercity and highway loads. For more information, write to the editor. Ask for GI.

### Pre-fab Buildings

Butler Manufacturing Co. has expanded and redesigned its present line of prefabricated buildings. The program of redesign puts the accent not only on practicality but also on beauty. The buildings are designed with conventional and flat roofs. The bays in the new line are 24-ft long instead of 20 ft. A wide variety of sizes, shapes, and colors are offered for buildings, trim, and roofs. For information on this beautiful new line of structures, write to the editor. Ask for G11.

### **Cord Strapping Tools**



American Viscose Corp. has developed two new tensioners—pusher type and a general type—for Avistrap. Both of these are semi-automatic tools. The strapping itself has distinct advantages over steel in that it is safe, will not snap or damage cartons or contents, and is 80 per cent lighter than steel strapping. Write for details. Ask the editor for G16.

### Angle Protector

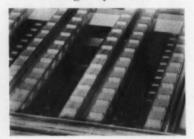
A protector for banded loads has been marketed by Buffalo Machinery Co. It is made of strong plastic that will resist cutting by steel strapping and will prevent damage to corners of delicate loads. It is made for use with ¾-in. steel strapping. This angle can be nailed without fear of splitting and is constructed to eliminate slipping after the strap is sealed. Write to the editor for details. Ask for G10.

### Strapping Seal



A new strapping seal to be used with painted and waxed heavy-duty 1½ in. steel strap has been announced by the Signode Steel Strapping Co. The seal is coated with a mastic compound which penetrates the slippery coating of the strap when crimped. For a high-strength, high-impact seal which is as strong as the strap itself, two double-crimped seals are recommended. Write to the editor for more details. Ask for G5.

### Live Storage System



Low-cost live storage to meet a wide variety of warehouse needs is possible with a light-duty roller-conveyor shelf system recently introduced. It is made by the North American Equipment Co. High-density polyethylene rollers are set in self-lubricating steel channels to give easy gravity flow. Wheel spacing: 1½ in. centers. Maximum load per wheel: 4 lb.

The editor will supply you with details on this system. Write asking for C14.

### **Towline Truck Bumper**



A bumper for towline trucks that will stop the truck and release the towline when it hits an obstruction is being marketed by SI Handling Systems. This attachment is designed for use with conveyors and assembly line systems. The truck features self-adjusting, self-aligning brakes, high-strength tow pin and shock absorber. Write to the editor for more information. Ask for G18.

### **Unit Load Trailer Floor**

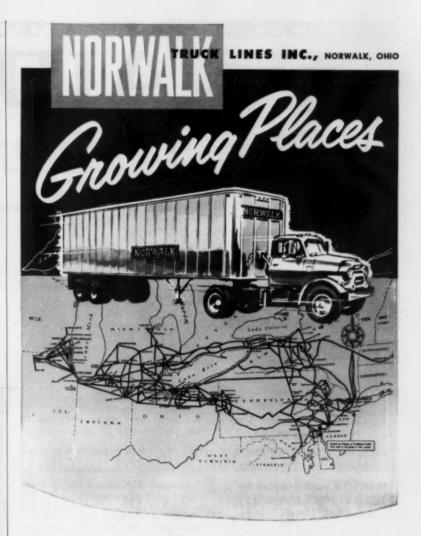


A new system of loading and unloading Volume Vans and platform units has been introduced by Fruehauf Trailer Co. Unitized loads are carried on multiple fork truck tines into the trailer and placed on the grooved floor, the tines of the truck corresponding with the grooves. A van can be end-loaded without pallets in 15 minutes. Any of Fruehauf's Volume Vans or platform trailers can be converted to this system. Write to the editor for details. Ask for G19.

### High-Lift Fork Truck



The Barrett-Cravens Co. has a new fork truck. The 24-volt Model TTR is available in capacities of 1000, 1500, 2000 lb with collapsed standard heights of 68 and 83 in. and 106 and 136 in. fork lift heights. It is a three-wheel truck and offers sharp turning radius and stability. The drive train is a single vertical unit placed under the upholstered seat. Also, the mast tilts 2 deg forward and 12 deg back. This automatic drive truck has all controls within easy reach of the driver. Write to the editor for details. Ask for G14.



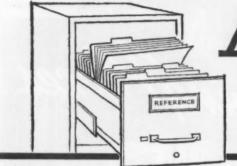
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### Daily Log Book

A 50-book pack of the Guide-On driver's daily log book is offered by Trucker's Specialty Printing Co. for private carriers and small fleet operators. It contains 51 sets of ICC Form BMC 59 and incorporates a clear plastic slide, making possible clearer, more accurate records. Space is provided on each sheet for daily recording of off-duty sleeper berth, driving, and on-duty (non-driving) hours. Write to the editor for a copy. Ask for F7.

### Industry in Oregon

The Planning and Redevelopment Dept. of Oregon has prepared a book about the industrial resources in that state. The total picture is broken down into divisions: finance industry resources, agriculture, distribution, and others. Write to the editor for your copy of this illustrated book. Ask for G45.

### Gas-Power Facts

A new pamphlet on a new slant in fork-lift trucks is offered by Automatic Transportation Co. The report evaluates the gas-electric combination. In this series of trucks a gasoline engine drives a generator which in turn drives a motor to supply power to the wheels. The hydraulic system of the truck is driven off the engine. To get a more complete picture of this system write for your copy of the pamphlet to the editor asking for G33.

### Interchange Instructions

Complete instructions for air-truck interchange are given in a booklet by Air Cargo, Inc. These instructions include procedures for acceptance, rates and tariffs, documents, charges, liability, and others. In your letter to the editor, ask for G43.

### **Bulk Handling Containers**

A report entitled "Notes on Tote" is available through the Tote System, Inc. The report deals with various models of high capacity bulk shipping containers. Special models and applications are also given. For your copy of this report on metal bins, write to the editor, asking for G42.

### Fork Lift Safety Kit

Towmotor Corp. has a kit designed to make fork-lift truck operators more safety-conscious. The kit includes a handy manual for operators, four safety cartoons, and four lift-truck route posters. All of the posters in the kit attract attention to the most common accident areas concerning fork trucks. The Operator's Guide outlines basic procedures for drivers. To get your kit, write to the editor. Ask for G25.

### Narrow Aisle Trucks



Narrow aisle electric trucks and hydraulic hand pallet trucks are described in a new catalog offered by The Raymond Corp. The 16-page book is il-

lustrated with on-the-job photos showing a wide variety of applications for space saving equipment. Separate pages illustrate the various models available and give pertinent information regarding specifications. You can have a copy. Write to the editor. Ask for F18.

### Annual Warehouse Directory

A 140-page directory of public refrigerated warehouses is available to the public through the National Association of Refrigerated Warchouses. This directory lists all members of the association. Included in the listing are: Company officers, storage capacities, temperature range, rail facilities, services, financial references. This directory is an invaluable help to anyone in related fields. Write to the editor for a copy. Ask for G34.

### Air Shipping Guide

A 25-page book on air shipping and related subjects is offered by the Port of New York Authority. Of special interest is the section entitled Specialized Cargo Handling Systems Developed for All-Cargo Aircraft. This illustrated book also has a section dealing with rates and procedures, air freight forwarders, and other related subjects. It can be yours by simply writing to the editor. Ask for G26.



# How Interstate's Transportation Specialists helped Addressograph-Multigraph cut shipping costs!

■ The first step was to sit down with A-M's traffic department and review the company's traffic program. Working together closely, classifications were carefully checked, routings were re-examined, a close look was given to procedures, handling and labeling. Out of the review came a comprehensive traffic plan that has resulted in substantial savings in shipping costs.

Of this service, Addressograph-Multigraph management says, "The knowledge and experience of Interstate System's traffic specialists combined with their unfailing willingness to co-operate on traffic management problems have helped us to hold the line on traffic expense. Savings effected in this area of operations are of decided importance to our customers as well as to the company itself,"

# INTERSTATE SYSTEM

Interstate System has been able to help many companies — both large and small — effect substantial savings in transportation costs without affecting swift, safe, dependable service — on both inbound and outbound freight. If these are the aims of your company, call the Interstate System Transportation Specialist. He's listed in the Yellow Pages.

Direct service to the important markets of America through 69 modern terminals in 24 states.



Grand Rapids, Michigan Canadian Officess Toronto, Montreal

MORE THAN A TRUCK LINE . . . A TRANSPORTATION SYSTEM

# Freight Transportation



### COMBINED ST. LAWRENCE SEAWAY TRAFFIC BY TYPE OF CARGO Montreal-Lake Ontario Section and Welland Canal (1)

Direction and Type of Cargo	No. of Transits	Net Tons	Gross Tons	Cargo Tons	Passenger
Upbound:					
Bulk	1,679	4,888,111	7,215,328	9,526,986	6
General	542	1,136,979	1,913,958	905,918	334
Mixed	409	782,923	1,287,225	625,941	283
Passengers	130	28,779	48,058	-	3,478
In Ballast - Ocean	271	1,186,602	1,985,234	-	-
- Laker	1,807	5,816,024	8,219,780	-	-
- Other	314	-87,964	117,354	-	-
Total - Upbound	5,152	13,927,382	20,786,937	11,058,845	4,101
Downbound:					
Bulk	3,150	10,539,191	15,312,455	20,523,408	77
General	133	345,009	586,784	410,126	22
Mixed	502	936,947	1,671,728	1,715,031	482
Passengers	130	29,725	50,024	-	4,167
In Ballast - Ocean	73	452,389	758,500	-	-
- Laker	852	2,008,505	2,893,658	-	-
- Other	284	73,625	100,352	-	-
Total - Downbound	5,124	14,385,391	21,373,501	22,648,565	4,748
GRAND TOTAL	10,276	28,312,773	42,160,438	33,707,410	8,849

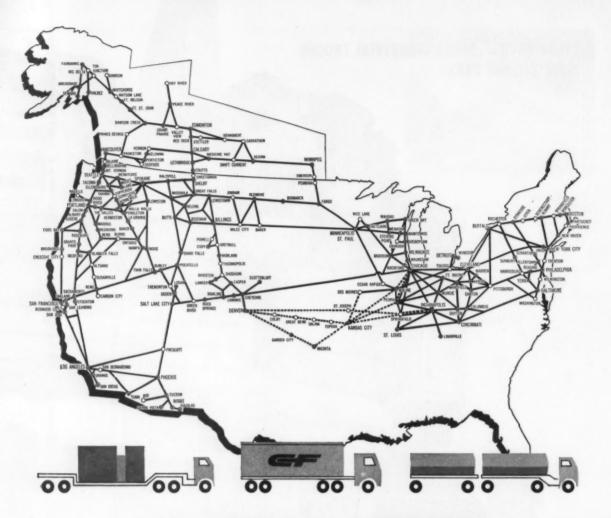
(1) Represents total Seaway traffic eliminating duplications between the two Canals.



### New Trend on Waterways

The trend is toward specialization on the inland waterways. The latest example of this is the towboat Eugenie P. Jones, which is designed to push four heated tank barges containing molten sulphur. The new towboat was built by Dravo Corp., Pittsburgh, for the Canal Barge Co., of New Orleans





# **UNCOMMON CARRIER**

Limitations of geography and facilities prevent any common carrier from serving every shipper in every state. But, there is one motor carrier today which can meet the needs of more shippers of more products in more cities than any other — Consolidated Freightways. And this, we think, makes CF an uncommon carrier.

Take CF's routes, for instance. The map above shows where we go. Our regular routes and main line terminals serve 76 of the 100 largest industrial markets in the United States and Canada. We have hundreds of daily schedules, with highly competitive transit times—ranging from hours to days.

Or take CF's diversified equipment. We can handle almost any product or commodity—truckload, LTL, bulk, reefer. You name it.

Then add CF's extra services. One example: Our unique Information Center is equipped to provide customers with comparative rates and other traffic data not available locally. Experts who speak the right language are assigned to specialties like export-import, perishables, and the like. We invite your inquiries.

All this means a system designed to provide more of the right kind of transportation every shipper and consignee needs—dependable, complete, uncomplicated, economical. Have you discovered the advantages of using the uncommon common carrier? Call your nearest CF terminal or contact the CF Information Center, Box 32, Chicago 50. AUstin 7-7003. TWX Bellwood 172.

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# CONSOLIDATED FREIGHTWAYS

Leading Name in Truck Transportation



JUNE 1961 . . VOL. 60, No. 6

HAT IS your concept of materials handling? Do you think of conveyors, hoists, hand trucks, powered trucks, or other types of equipment? Or do you think of men lifting, tugging, pushing, and pulling materials through various operations?

The use or lack of handling equipment depends on whether or not someone has taken time to develop a good way of tying together the operations.

There are five limiting factors that have hindered the materials handling progress:

1. Misconception of what materials handling is. Many believe that if they have a fork truck or conveyor, they are in the handling business. That's not enough. Materials handling is complete planning from the time a material comes from the vendor until it goes through all operations in the plant and is eventually in the consumer's hands. Equipment is only an aid.

2. The attitude of management and personnel. The problem is not in producing ideas. The main difficulty seems to be overcoming resistance to change.

3. Piecemeal materials handling installations. Solving materials handling problems on an emergency basis is the general rule. The most intolerable situation of the moment gets the attention. Materials handling will pay off only when it has been given a position in overall planning.

4. Limitations of present equipment manufacturers. A wide variety of standard materials handling equipment with many attachments is available. Special equipment is available upon demand. No one piece of major handling equipment will solve all elements of a problem. Therefore, we have to go to many sources to procure equipment to form an integrated system. This takes hours of research. There is a general lack of coordination among manufacturers of specific equipment. This makes it difficult to get the engineering data required for a

A hintful guide to handling costs

A few illustrations from this article may quickly change your conception of materials handling, the science that only works when it works for you

complete system. The greatest need in the equipment field is systems engineering.

5. Educated and experienced materials handling men. We have too many people who are willing to give lip service to materials handling. Too few are willing to study it.

Mechanically and materially, we are able to centralize and take the necessary steps to solve many problems in plant layout and materials handling. However, one of the biggest problems is overcoming resistance to change. This resistance is heard in such phrases as "It's too much trouble to change," "Our plant is too small," "We are an over-grown job shop," "We've always done it this way," "It won't pay for itself," "I know some plant that tried it."

How many of these negative ideas sound familiar? The management of any organization is subjecting itself to an ever-increasing amount of penalties when it condones this type of thinking.

As long as you are working with management, a large portion of your time will be devoted to changing the attitudes of others. How can you do this? Here is a suggestion.

Prepare a memorandum answering these four questions:

- 1. What is the problem?
- 2. What is the cause of the problem?
- 3. What are all of the possible solutions to the problem?
- 4. What solution do you suggest?

To help answer these questions, perhaps it is well to go back to the three steps which many executives have used in the past:

- 1. Get the facts.
- 2. Analyze the facts.
- 3. Arrive at a decision then act on that decision.

Obvious? Yes. Aristotle taught it—and used it.

In analyzing the facts, we must take into consideration the whole field of materials handling. Materials handling is a system of methods and equipment which ties together productive and non-productive operations. It makes them into a unit. There is a close relationship between materials handling and plant layout. James M. Apple, author of a book on "Plant Layout and Materials Handling," has stated this briefly:

1. The material flow is the basis for the layout design.

(Please Turn Page)

# Handling Costs . . .

(Continued from Preceding Page)

2. The layout design is the basis for the plant building design.

 The effectiveness of the plan for the arrangement of the physical facilities is the basis for successful operation of the enterprise.

Therefore, it can be concluded that the material flow and handling problem is the base upon which the success of the enterprise rests.

In studying handling and layout problems, I have found that all problems contain these elements to some degree:

1. Materials. All plant operational problems start with materials. Get all the information available such as properties, shape, characteristics, weight, dimensions. The source of the data can be blueprints, parts lists, and process specifications. Find the quantity of materials from the sales forecast, production scheduling, and inventory control. Some

type of spread sheet generally is used to record this data.

2. Containers. Materials generally have to be moved in some type of containers such as bags, boxes, barrels, tank cars, or tote pans. We need a description—size, shape, cubic content, and weight capacity.

3. Movements. This is the flow of the material from raw storage through the various processes and to the shipping dock. Routing, distance, sequence of operations, through what machinery.

4. Frequency and speed. How often and how fast are the materials moved? What are the production cycle time, set up time, daily stock requirements, machine load data, capacity available, number of shifts, machine efficiency, economical lot size, peak load requirements?

5. Float and storage requirements. How much raw materials to be stored, purchase-lot quantities for pricing, quantities be-

tween process operations, inventory control procedure, stock for stores, finished product, or direct shipment.

6. Building facilities. Type of building, columns, spacing, floor load capacity, ceiling height, service lines, elevators, ramps, and roadways.

7. Labor. Who moves material? When? Does productive labor handle materials outside of machine cycle time? How much time is involved in the movement?

8. Equipment. Is productive equipment adequate to turn out the volumes required? Is equipment properly located? Inventory all types of materials handling equipment.

9. Cost. Break down handling costs by departments. Show power cost, depreciation, purchase price of new machinery, installation cost, and salaries and wages.

10. Savings. Unamortized value of displaced equipment, fixed overhead charges against displaced equipment, increased productivity, labor costs, more tons per man hour, damaged and spoiled work.

This list is by no means complete. Additional factors can be added as required. Thorough data analysis as it reflects the objective for which expenditures are to be made is indispensable to good management. Only through a combination of the right kind of significant costs can a decision concerning better handling methods and layout be reached.

This type of analysis automatically determines whether or not existing facilities will effectively accommodate the required work load. At the same time, reductions, additions, or modifications that may be required to present buildings or equipment can be determined. With this kind of data properly recorded, a review can be made at any time.

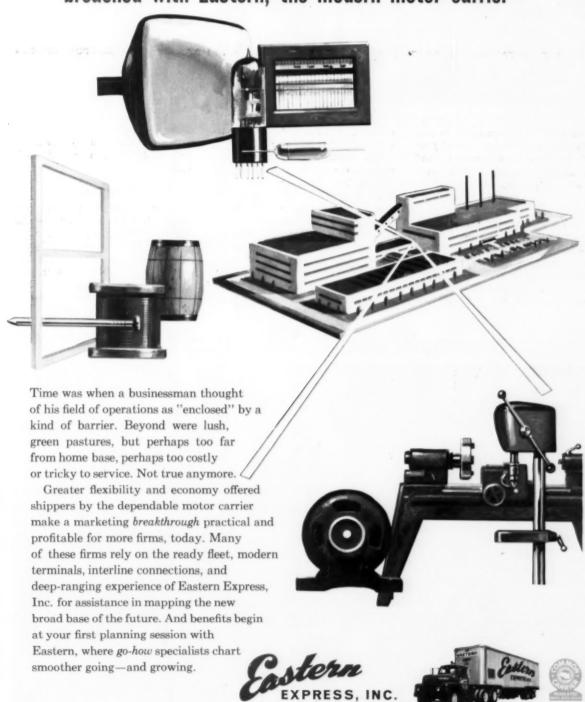
In addition to the above elements of a problem, there are eight other factors to be considered:

 Continually adopt a questioning attitude. Take nothing for granted. Look at a problem from all angles.

2. Look at the entire movement from the source of raw materials to the ultimate consumer. Few (Please turn to page 78)



# Stretch toward greener pastures . . . as those once too-tough or too-distant markets are reached and breached with Eastern, the modern motor carrier



# Aisles push profits up at

The old warehouse squeeze play boosts profits at this warehouse as narrow trucks

SPACE IN Wisconsin is as precious as anywhere else if your business is warehousing and the additional services which make it efficiently inexpensive and safe.

## New Equipment

In a move to get the greatest benefits from existing space, Hansen Storage Co., Milwaukee, Wis., incorporated a new piece of handling equipment into its operations. It is a fork-lift truck, but one with an 180-deg rotating front end that stacks or picks loads from a 90-deg angle left or right.

The midwest warehouse added four of the trucks to its fleet of 60 fork lifts. They are used in the new warehouse and after six months, the trucks have brought many dividends. One half of the 65,000 sq ft warehouse receives and holds grocery and allied items. Here, some 30,000 tons of merchandise are handled annually. (The other half holds newsprint and general merchandise.) With

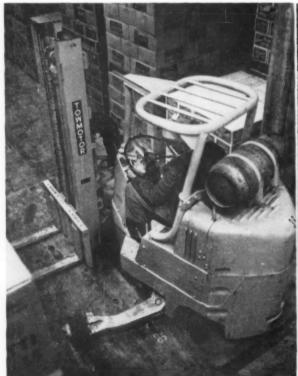
the new handling equipment, aisle widths have shrunk by one-third. From 12-ft wide to a profitable 8 ft wide.

# More Space

Square footage picked up—over 3000 sq ft is gained—and now the warehouse handles 800 additional pallets. The diagram gives graphic comparison to the old and new storage facilities with the same warehouse area. Shaded areas indicate storage racks.

Close-up view shows compactness of truck and ability to pick loads from narrow operating quarters. Handles 4000 lb.

One of new Towmotor narrow aisle trucks stacks load of foodstuffs 18 ft high. It works in 8 ft aisle with outrigger





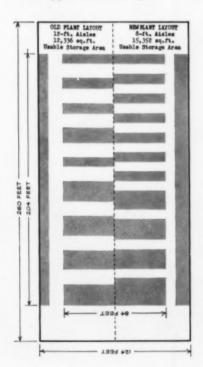
# warehouse

increase storage space

Where once 12,336 sq ft of space existed, now there is 15,352 sq ft.

With the new plant layout, pallets are racked back to back in seven of the storage sections. Since the lift truck can pick or stack loads three pallets deep on recessed tiers, open stock is stored two deep in three sections and two and three deep in another.

All loads are palletized and stacked up to 20-ft high—just 2 ft short of the 22-ft ceiling. Some loads are racked for flexibility in merchandise selection. A highlight of handling efficiency has allowed Hansen to standardize on a pallet design while damage to merchandise during stacking and picking has dropped considerably. •





The unique tailgate affords easy unloading of products at ground level. Automatic Transporters' brakes automatically applied when handle is up

# Walkie goes piggy-back for quick deliveries

A COMBINATION of engineering ideas has paid off in better customer relations for a principal Pacific Coast paper company.

Plagued by customers' complaints of time consuming delivery operations of skids of paper, weighing from 2000 to 4000 lb, which were made on low-bed trucks requiring a combination of ramps and muscle-power to unload, Zellerbach Paper Co. set out to correct them.

It came up with two things: a modified delivery truck and a fork truck with a hinged platform or skid adapter.

With these pieces of equipment the firm was able to increase its capacity to efficiently and safely handle tonnage merchandise on a one-stop, one-man delivery system.

First, a high-bed cab-over truck's load capacity was increased to approximately 24,000 lb by adding a trailing axle. Then a specially designed hydraulic lift gate measuring 6 ft x 8 ft was installed on the truck. To reduce its overall length, the gate was constructed to fold up against the back

of the van. There it serves another purpose—a tail gate.

The heavy-duty cab-over does a good job delivering through the crowded, steep, hilly thoroughfares of San Francisco. Very few of Zellerbach's customers, especially small printers and jobbers, have dock facilities, so the hydraulic ramp facilitates unloading at street or curb level.

Piggy-backing, so to speak, a low-lift pallet truck is also paying off as a time-saving move. The feature that has added to its versatility is the platform structure which comes down over the pallet forks. This skid adapter is hinged to the back plate of the pallet forks. When not in use it folds back against the battery housing. Standing upright, it serves as a backstop for pallet loads which are highly tiered.

The electric powered low-lift is used in the loading of the truck in a first-last sequence.

The over-the-road truck and the walkie are now executing a time and money saving function. The two trucks have paired to make a one-stop delivery system. •

# "On the waterfront...

it's 8:22 p.m. . . . the ship is loaded . . . sailing time is dawn tomorrow. We loaded 2,200 tons of cargo in her hold today, starting at sun-up. Tomorrow there'll be another ship . . . another day of lifting, hauling, storing.

"When you work like that from day to day, you need a truck that can stand the gaff . . . you need a truck that can handle the load with ease and put it where you want it—fast. You need a Clark to work with."



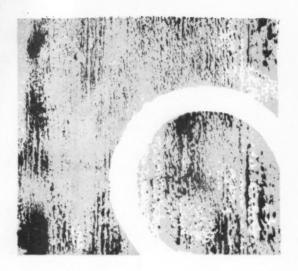
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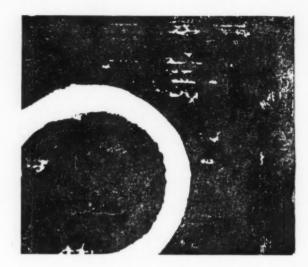
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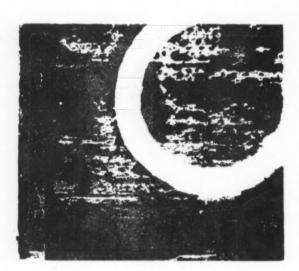
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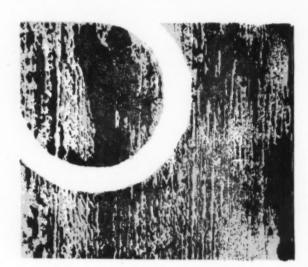


For full details, see your local Clark Dealer or circle 77 on reader service card









**Flexibility**—that's the key characteristic of motor transport. Trucks can go wherever there are roads—in any and all directions.



# AMERICAN TRUCKING INDUSTRY

American Trucking Associations, Inc., Washington 6, D. C.

THE WHEELS THAT GO EVERYWHERE



# INDUSTRIAL TRUCK SPECIFICATIONS—1961-62

Specifications of some 1000 models and types of industrial trucks are included in this 16-page section. Because of space limitations, basic models only are listed for each firm. A multitude of variations, to fit the needs of the individual user, are The entire section, from Pages 45 to 60, has been

reprinted. Copies can be obtained at 70¢ each by writing The Editor of DISTRIBUTION AGE, Chest-nut & 56th Sts., Philadelphia 39, Pa. Quantity lot prices will be quoted on request.

Where tire and wheel dimensions are listed, the following guide should be followed: Solid Molded On:

Tire Outside Diameter x Rim Width Solid Pressed On:
Tire Outside Diameter x Base Width x Wheel O.D.
Presumatic Wide Base:
Tire Outside Diameter x Cross Section Width x Rim O.D.

Pneumatic Narrow Base: Cross Section Width x Rim Outside Diameter

Pneumatic Single Tube:
Tree Outside Diameter x Cross Section Width
Preumatic Single Tube (Wheel):
Tree Outside Diameter x Cross Section Width

# POWERED NON-LIFT PLATFORM TRUCKS

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# POWERED LOW-LIFT FORK OR PLATFORM TRUCKS

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# INDUSTRIAL TRUCKS-TOWING TRACTOR TYPE

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		MAKE MODEL MODEL	Automatic.	Barrett-Cravens	Clark.	Ford. Kalamazoo	Lewie-Shepard		LIR Trucks

# INDUSTRIAL TRUCKS-TOWING TRACTOR TYPE (CONTINUED)

	1	AND MODEL	Mercury Cont. A-30 A-800 A-800 A-800 A-800	Иорінія 40	Revolvator Go-Cetter 82.30 Go-Cetter 83.30 Go-Cetter 84.30 Go-Cetter 84.30 Go-Getter 86.30	illent HotetTK-25	K6-33 K6-33 K6-38 K6-38 K6-38	MAT-2 MAT-2 MAT-3	-Including battery. Combination steering and driv- 30 to 36. These wheel. The steering and driv- -170 to 300. 120 cf. 30.
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		Motive Power	GGGGG	G	EMME	GE	ತಕಕಕ	NAME OF THE PROPERTY OF THE PR	340 to 500 plus. 4.00/12 or 16/4x4. 50/12 or 21x5. 36 or 48.
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BATTERY		Ampere Hours	3		Var Var Var	::	2222	\$\$\$\$\$\$\$\$\$\$	2222
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	96	Number of Rever	*	O4	2000	NN	0000	*************	GL—Gasoline or GLD—Gasoline, engine, GT—Grip tow,
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		Steering Wheels	35555	P	8888	22	8888	2888828888	tic or SC 80
	Type	Driving Wheels	32222	F	8888	22	2222	2888828888	ushion.
TIRES		Steering Wheels	183/5×4 6.00/7 6.00/9 7.50/16	8.00.9	12x3 12x3 12x3 2x3 2x3 2x3 2x3 2x3 2x3 2x3 2x3 2x3	10.00/20	17x4/sx12/ 17x4/sx12/ 17x4/sx12/ 17x4/sx12/	10.00 A 10.00	stic or cushion. ook. SC.—Solid or cushion.
	Sizes	9 Driving Wheels	21x5 7.00/16 7.00/16 7.00/16 7.50/16	6.50/16	12x3/2 12x3/2 12x3/2 12x3/2 12x3/2	10.00/24	25% 22x8x16 25% 22x8x16 25% 22x8x16 25% 22x8x16	7. 1000000000000000000000000000000000000	Ss—Site or stands. St—Stands. Un—Universal. Var—Various.

# POWERED HIGH-LIFT FORK OR PLATFORM TRUCKS

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TIRE SIZES	7	Steering	Wheels	98.5 98.5 98.6 98.6 19.5	6.00/9 6.00/9 7.50/15 11.00/20 10/5x7x6/5 6.00/9	10.00/20
		Drive		17% 4.5 1 18×6 1	6.00/16 7.00/15 8.25/15 14.00/20 6.00/16 6.00/16	10.00/20 Dual 11.00/20 Dual 12.00/20 Dual
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# POWERED END-LOADING (STRADDLE) CARRIERS

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ABBREVIATIONS 4-2½ x 6 x 38.

5-Minimum package only: 90° height
and 70° width with maximum
package: also special sizes available.

1—These units also available in 30,000

1b. capacity.
2—Three abose 32 carb.
2—Hercules WXLG3 at 142 bp. or Commins 18681 at 165 bp. available.

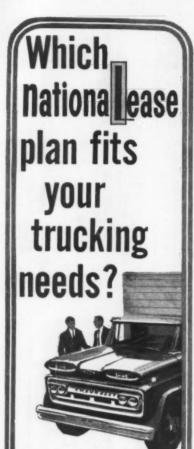
6—Available with pivot fork; 57" load space.
7—Cummins J88B1 at 165 hp, available.
8—For top pick up of 8" x 8" x 24" containers.

-Lift trave of 144" from 96" to 240"
above ground.

A—Automatic
Chr—Chrysler Corp.
Con—Continental Motors Corp.

E—Electric. G—Gasoline engine. GD—Gasoline or Diesel engine. G-E—Gas-Electric. GDL—Gasoline, diesel or LPG.

See Page 62 for a Directory of Manufacturers for These Specifications.



THE CHANGE-OVER PLAN

We take over all of your present truck and maintenance problems, help you reorganize your truck facilities and personnel. We supply you with new vehicles, engineered and painted to your exact requirements, or will buy and recondition your present fleet.

. THE ADD-A-TRUCK PLAN

As your business expands, don't use vital capital for more trucks, lease new ones as needed.

. THE TRUCK RETIREMENT PLAN

As each truck in your fleet needs replace-ment, instead of buying a new one, lease it. In a few years all your vehicles are leased.

. THE PILOT PLAN

Instead of switching from ownership to linear of switching from ownership to leasing in all locations, select one loca-tion (or division) for a "pilot" operation using full-service leased trucks, comparing costs and headaches with trucks which you still own and maintain.

Lease a new CHEVROLET or other fine truck. No investment, no upkeep, no headache

LEASE FOR PROFIT—NATIONALEASE fullservice truckleasing supplies everything but the driver. Licensed, insured trucks, engineered and painted to your needs, garaged and expertly maintained. ONE invoice, NO worries. Devote your full time, ALL your capital to your own business!



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# The Manufacturers

Allis-Chalmers-Allis-Chalmers Mfg.. Co., Tractor Group, Box 512, Milwaukee I. Wis.

American-American Road Equipment Co., 4201 N. 26th St., Omaha II, Nebr.

Automatic-Automatic Transportation Co., 101 W. 87th St., Chicago 20, III.

Baker-Baker Industrial Trucks, P. O. Box 5579, Cleveland 2, Ohio

Barrett - Cravens - Barrett - Cravens Co., 630 Dundee Rd., Northbrook,

Champ—Champ Sales Corp., 2500 N. Rosemead Blvd., El Monte. Calif.

Clark-Clark Equipment Co., Industrial Truck Div., 24th St., Battle Creek 85, Mich.

Clark-Ross—See Clark Equipment

Elwell-Parker-The Elwell-Parker Electric Co., 4205 St. Clair Ave., Cleveland 3, Ohio

Erickson-Erickson Power Lift Trucks. Inc., St. Anthony Blvd. & University Ave., N.E., Minneapolis 18. Minn.

# in the Specifications

Gerlinger-See Towmotor Harlo-Harlo Products Corp., 4210 Ferry St., S.W., Grandville, Mich.

Mich.

Ford-Tractor and Implement Div., Ford Motor Co., Birmingham,

Hustler-The Heifred Corp., Church & Elm Sts., Willoughby, Ohio Hyster—Hyster Co., P. O. Box 4318,

Portland 8. Ore.

Kalamazoo—Kalamazoo Mfg. Co., 1827 Reed St., Kalamazoo, Mich.

Kwik-Mix-Koehring Co., 3026 W. Concordia Ave., Milwaukee 16.

Lewis-Shepard—Lewis-Shepard Products, Inc., 101 Walnut St., Watertown 72, Mass.

Lift Trucks-Lift Trucks, Inc., 2425 Spring Grove Ave., Cincinnati 14,

Mercury-Subsidiary, Pettibone-Mulliken, 4600 W. Division St., Chicago 51, Ill.

Mobilift-Mobilift Materials Handling Equipment Div., Motec Industries, Inc., Hopkins, Minn.

Moto-Truc-The Motor Truc Co., 1953 E. 59th St., Cleveland 3.

Oliver-Oliver Corp., 300 Lawler St., Charles City, Iowa

Ottawa-Equipment Div., Young Spring & Wire Corp., Bowling Green, Ohio

Pettibone — Subsidiary, Pettibone-Mulliken, 4600 W. Division St., Chicago 51, Ill.

Pettibone-Mercury-Subsidiary, Pettibone-Mulliken, 4600 W. Division St., Chicago 51, Ill.

Pettibone-Mulliken-Pettibone-Mulliken, 4600 W. Division St., Chicago 51, 111.

Prime-Mover - Prime-Mover Co., Muscatine, Iowa

Raymond-The Raymond Corp., 17503 Madison St., Greene, N. Y.

Revolvator Co., Tonnelle Ave. at 86th St., North Bergen, N. J.

Ross—See Clark Equipment Co. Scott—James Campbell Smith, Inc., 4057 Erie St., Willoughby, Ohio

Silent Hoist-Silent Hoist & Crane Co., 841-877 63rd St., Brooklyn 20, N. Y.

Towmotor—Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio

Truck-Man-Truck-Man Div., The Knickerbocker Co., 603 Liberty St., Jackson, Mich.

Wright-Hibbard — Wright-Hibbard Industrial Truck Co., Div. of Jonard Industries, Inc., P. O. Box 227, Hamburg, Pa.

Yale & Towne—The Yale & Towne Mfg. Co., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

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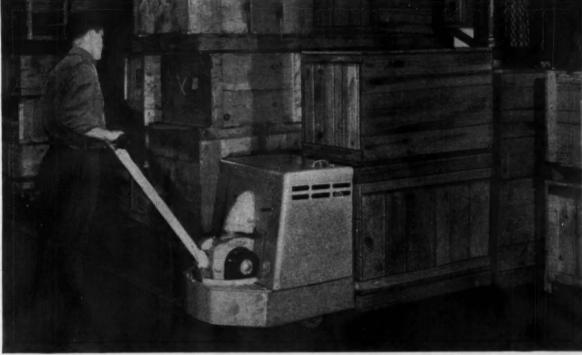
shipper, or if you are having something shipped to you,

call Southern Pacific first!

# EXIDE POWER PACKAGE

Exide Industrial Marketing Division, The Electric Storage Battery Company, Philadelphia 20, Pa. (ESB)





Extra economy assurance for your new walkie-type truck—the Exide guarantee of battery life equal to truck life.

# BATTERY GUARANTEED FOR LIFE OF TRUCK

Let's say you're about to buy a new walkietype electric industrial truck. You want long battery life for maximum economy, and you don't want the nuisance of ever replacing the battery, if you can avoid it. Well, this is the Exide offer:

For walkie-type low lift trucks and hand tractors, the recommended Exide nickeliron-alkaline battery (the type invented by Thomas A. Edison) is guaranteed for the life of the truck—provided the truck remains in your possession and approved maintenance procedures are followed.



The Exide Power Package. Recommended battery and charger from the world's broadest lines—plus factory-quality service to cover both.

This is not a reckless offer. Exide knows from countless actual performance records that these batteries readily give this kind of life. Many Exide nickel-iron-alkaline batteries have been used in walkie-truck service for upwards of 20 years and are still going strong. So the plain fact is that we are simply giving you positive assurance of battery value that is already there anyway.

Long life is one of the characteristics of Exide nickel-iron-alkaline batteries. They have other unique advantages too. They are lighter in weight than other batteries. They give off no corrosive fumes during use or while charging. And they can be stored indefinitely without injury. This is of special value during seasonal shutdowns or other inactive periods. All you do is discharge the battery, short-circuit the terminals and store in a clean, dry place.

Of course, for any type electric industrial truck—walkie, rider, or narrow-aisle—the maximum power economy depends on three factors: the right battery for the job, a charger to match, and needed service. This combination is the Exide Power Package.

Your Exide representative studies your requirements, then recommends the battery best for your needs from the broad Exide line. He is completely objective in determining your needs because Exide offers all types: Exide-Ironclad with tubular positive plates, Exide-Powerclad premium flat-plate, and Exide nickel-ironalkaline. Exide chargers are available in both motor-generator and silicon rectifier types and in sizes to cover all needs. Exide service men are coast to coast, all factory trained on batteries and chargers.

The Exide Power Package is your easiest way to get not only maximum battery life in your applications, but maximum battery economy year after year. Write for details. Exide Industrial Marketing Division, The Electric Storage Battery Company, Philadelphia 20, Pa.

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TEXAS Southwest Airmotive Co., Dallas

Stone Supply Company, Houston

VIRGINIA Diesel Injection Sales & Service, Norfolk

WASHINGTON

Seattle Tent & Awning Co., Seattle

WISCONSIN

Badger Body Co., Milwaukee 4



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### SERIES "E" Cargo Control System

Flush-mounted, factory-installed vertical and/or horizontal punched steel track to which straps and/or 2x4 sockets attach. Fittings insert at 2" intervals in horizontal track, 4" intervals in vertical. Fast-action buckles pull up nylon straps snug and secure. 2x4 wood beam decking socket supports 1000 pounds.

State



### SERIES "E" RETROFIT Cargo Control System

Same as Series "E" System, except designed for field-installation less than six man-hours and without special tools. Horizontal Retrofit track, which attaches any where on truck or trailer wall with simple wood screws, also strengthens wall and acts as rub rail to protect plywood lining.



### SERIES "F" Cargo Control System

A load-control system using round shoring bars with spring-loaded ends that snap into and out of track openings on 11/4" centers. Bars and straps can be used in combination. Bars can secure partitions . . support . keep rear overhead doors free for opening, closing . . . protect cargo and speed handling.

SAFE-T-LOADED is an Aeroquip Trademark

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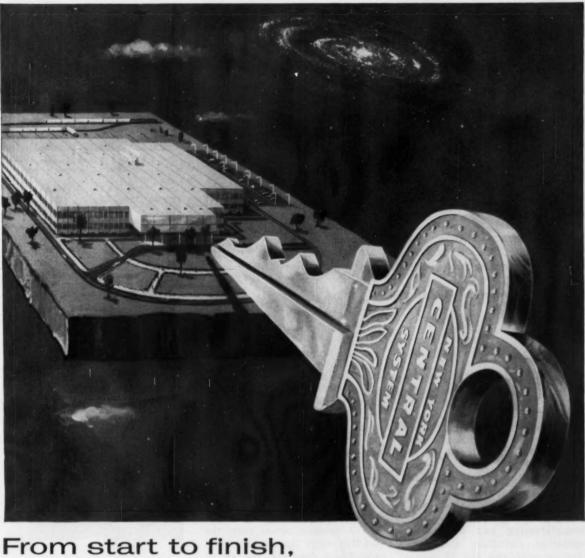
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If you don't need a whole building, or you want to be near related industries, we can still help. "Turnkey" coordinates the needs of all kinds and sizes of businesses, brings them together as neighbors. "Operation Turnkey" can be a giant step on your road to the future.



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Take that important step forward—call or write: Otto W. Pongrace, Dept. N. N. Y. Central, 466 Lexington Avenue, New York 17, N.Y., MUrray Hill 9-8000

# IDP shakes cobwebs out of distribution network

Data processing is helping this company plan distribution and achieve economical freight rates

NSTALLATION of an electronic data processing system has enabled a west coast company to centralize control of plant and warehouse facilities which ship close to \$80 million a year worth of household laundry products.

In effect, the single computer installation at Purex Corp., Ltd., in South Gate, Calif., a suburb of Los Angeles, optimizes the entire manufacturing and distribution operation, including: daily production schedules for 17 manufacturing plants, daily shipping schedules to 67 warehouses, traffic and freight operations for the entire network.

## Helps Optimize

Ultimately, this program helps optimize shelf positions in stores and supermarkets by insuring that shipments arrive on time.

In the highly competitive cleaning products industry, there is a continuing struggle for the grocer's valuable shelf space. If brand "A" is sold off the shelf, and the grocer has no replacement in his stockroom, he will restock "A" space with a competitive product and "A" may never be able to regain the space. We must maintain an adequate stock at all our

warehouses at all times to fill customer orders.

Adding to the problem is the fact that the rapid growth of Purex has created a distribution network of extreme complexity. Purex manufactures more than 75 consumer products. Some are distributed under more than one brand name. Others are specialty items manufactured for seasonal shopping periods such as Christmas. A problem arises from the fact that while the company sells only Purex products, not all of the company's products are made in all our plants.

## Spiderweb

This has created a spiderweb distribution network in which merchandise is moved in bulk across long distances from 17 manufacturing points to 67 distribution points, so all warehouses have a sufficiently large stock of products to meet customer demand.

Distribution must be planned to achieve the most economical freight rates for the product involved. It is uneconomical, for instance, to ship bleach, which is priced at 4 cents a lb, more than 400 miles

The situation is further complicated by a diversified pricing



IBM RAMAC 305 data processing system centralizes operation's control



Programming is automatic, produces shipping schedules. Setup is wired

Invoices from orders are sent to processing center daily and carded



arrangement which enables customers to obtain lower prices through ordering combinations of products in bulk. For instance, to obtain the best price on his merchandise, one customer may order bulk quantities of Trend, (manufactured in St. Louis), Dutch Cleanser (Chicago), and Sweetheart Soap (Omaha). These products are to be delivered to the customer in one shipment.

To maintain adequate control over this distribution network, and the production schedules created by distribution demands, Purex installed a data processing system. This computer maintains complete control over the manufacturing cycle from the purchase of the

(Please Turn to Page 68)



# DIAGNOSIS: SEVERE COMMUNICATIONS BREAKDOWN CURE: AMERICAN AIRLINES AIRFREIGHT

From the first phone contact to dock delivery, American smooths the communications path. How? . . . (1) advance planning of available lift capacity (2) flexible local routing and control to meet daily shipper requirements (3) a nation-wide private line communications network second to none in size and versatility (4) a staff of telephone sales agents keyed to your requirements. In every step, American has the answer to your goods-in-transit problems.

When you ship by American AIRfreight, you have the assurance your goods are moving on predetermined routing. Should questions arise, you'll talk to the friendly, knowledgeable voice of American and get up-to-theminute answers. Guesswork's gone. Tighter production and delivery schedules can be set and met, thanks to American's speed and dependability.

Service like this is why more shippers ship more freight on American than any other airline in America. With 1200 flights daily, American's fleet of AIRfreighters, Astrojets,\* and other combination lift planes gives same day or overnight service to more than 50 major markets. And the world's most experienced AIRfreight specialists guarantee your cargo expert handling. Ship with the professionals—call American AIRfreight.

# AMERICAN AIRLINES

America's Leading Cargo Airline

\*Service mark of American Airlines, Inc.

# IDP shakes . . .

(Continued from Page 66)

raw material to shipment of finished product.

The equipment includes a 50 disk "memory" unit with a capacity of 5,000,000 alphanumerical characters of data. The entire general ledger, for example, is held in the "memory" for accounting purposes. The system can produce an item of requested information in less than a second and is able to complete all the computations necessary to obtain monthly production and shipping schedules in only six hours, leaving the rest of the working month open for other data processing applications.

## Can Modify

By addition, changes in company operating procedures are readily absorbed by the computer. Management can modify the existing programs within the computer at will, adding new plans and exceptions as needed. These are fed into the system to correct the existing plan. Management plays a key part in plans formulation, but the heavy burden of detail work is performed by the computer.

Operating completely on probability, the computer draws a complete monthly sales forecast at the beginning of each month. From this sales forecast, the computer establishes complete day-by-day production schedules for each plant (covering all facets of the operation, including facility availability and raw material requirements) and an optimum shipping schedule which directs the flow of material from plants to warehouses. A centralized control has been set up to make sure the company is not tying up capital in unnecessarily high inventories, or endangering our market position with short supplies.

Here's how the system works:

Invoices from customer orders are sent to the Purex data processing center in South Gate each day. Data from these orders is then transcribed into punched card form. The cards are read into the computer's memory. The computer

updates all sales and inventory information daily and at the end of the month a complete sales report is produced.

This computer-generated sales report now becomes the input for the automatic management operating system. Monthly sales and inventory reports are fed back into the computer which contains, in the disk memory unit, the sales reports of the preceding six months. From these figures, the computer automatically arrives at a monthly sales forecast. The forecast is based on six months sensitivity, and shows probable sales together with maximum and minimum protection figures.

### Forecasts

Actually, the computer creates two sales forecasts. It produces a preliminary forecast two months in advance which is studied by management. The figures in this report are revised in terms of management objectives and the new information is entered into the computer "memory." Then on the basis of the adjusted figures, the computer produces the actual sales forecast. This is the complete, detailed, day-by-day forecast.

Once the final forecast is obtained, the device automatically computes all the information necessary to produce the shipping and production schedules. The computer analyzes each product in each warehouse and, considering the inventory on hand, and the protective levels, determines how much material must be sent by weight and volume to fill the anticipated sales requirements.

The computer determines how many shipments must be made to fill warehouse requirements and sets the first shipping date.

With shipping requirements established, the system analyzes plant facilities and sets up production schedules, showing daily raw material usage and requirements.

## Accounting Machine

These calculations are complete-



Punched cards are sorted before they are entered in the memory unit



Facts on cards enter memory. General ledger is in data processor

Cards are fed into accounting machine, converts results into reports



ly automatic, accomplished by a program established by a Purex mathematician. They are completeed by the system within a six-hour period. The results emerge from the machine in punched card form, and are translated into printed form by an accounting machine.

The printed reports show sales forecasts, production schedules and shipping schedules. The reports are sent to the Purex planning section, which distributes them to the proper authorities—the shipping schedules to the respective plants, the raw material requirements to purchasing, etc.

The use of this system makes possible optimization of the complete planning and production

(Please Turn to page 80)

# **NEED A TRUCK... NEED IT FAST?**



# need a van, panel, pick-up, walk-in . . . and need it fast?

Hertz specializes in getting you the truck you want—and getting it to you fast! You get new Chevrolet, GMC or other famous make trucks. And you can choose from a wide variety of types—van, stake, panel, pick-up or walk-in. Tractors and trailers are also available in many cities. All you need is proper driver's license and identification. And Hertz low rates include insurance, gas and oil, even if bought on the road.

Play it smart! Don't tie up needed cash in "stand-by" trucks that are used only as replacements or during

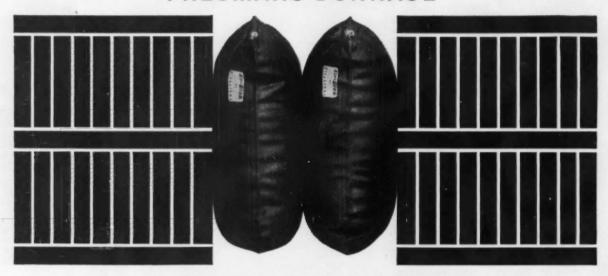
peak periods. Rent trucks from Hertz when you need them—and conserve your capital! Trucks are available by the hour, day or week. Also available on long-term leasing basis for economical year-round operation.

no investment...no upkeep



# FIRESTONE AIR-BLOK

PNEUMATIC DUNNAGE



# **ENDS SHIPPING DAMAGE AND DUNNAGE WASTE!**

Air-Blok, Firestone's pneumatic dunnage cushion, assures damage-free deliveries, shipment after shipment. You buy it only once. From then on, cargo bracing is a low-cost, one-man job.

One workman can quickly block lading by inflating Air-Bloks in place. These tough, rubberized nylon cushions, made according to the new improved Firestone design, take up slack, tighten the load and offer shock-absorbing security against shipping damage.

At each trip's end, Air-Blok deflates to speed return of dunnage and eliminate demurrage charges. The cushions return for re-use and cancel costs of short-lived, conventional dunnage.\* Dunnage savings up to 50% are reported by shippers.

For full Air-Blok information, contact Firestone Industrial Products Company, Dept. 60-2, Noblesville, Indiana.

\*Free return in following territories: Within: Official, Southern, Southers; between: Southern and Official, IFA and Southern, Official and Southwestern, Southwestern and Southern. Applications for other territories are pending.

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INDUSTRIAL PRODUCTS COMPANY NOBLESVILLE, INDIANA / INTEGRITY, QUALITY, ACCURACY, DEPENDABILITY



Air-Bloks are quickly deflated, rolled and tied with built-in straps for easy return.



Air-Blok is easy-in, easy-out dunnage; one man can block entire car swiftly.



#### Millions for modern communications!

Tape recorder, electronic computer, teletype, telephone, telegraph—all share in L&N's advanced communications network, costing many million dollars, and enabling L&N to pinpoint any freight car at any time, whether en route or at terminal.

Prompt information for shippers is one benefit of L&N's fast, sure communication system. Another advantage is increased efficiency at terminals, where train consists arrive well ahead in teletyped form, indicating how cars are blocked, or grouped, for their destinations.

One of the nation's great railroads, L&N offers you up-to-the-minute transportation to, from, and

through the Central South, with 5,700 miles of main track, and 60,000 cars, a fleet which is among the five largest in the country. Equally important, L&N stays modern by continuing to invest in progress, with \$47.5 million put into new cars and terminal equipment in 1960, and an additional \$48 million being spent in 1961.

Ship L&N for operating knowhow that means dependability, for modern facilities that give the shipper speed with safety! Contact Freight Traffic Department, Louisville and Nashville Railroad, Louisville 1, Kentucky (JUniper 7-1121).



LOUISVILLE AND NASHVILLE RAILROAD

# Flexible containers towed in sea trials

Flexible container filled with hydrocarbons makes successful trip across the North Sea

By John Grindrod, European Correspondent

THE HEAVY Organic Chemicals Division of Imperial Chemical Industrial Ltd. and Dracone Developments Ltd. have successfully tested in deep-seas a Dracona flexible towed container.

The trial was a North Sea crossing between Billingham, England, and Flushing, Holland. Conceived as a possible means of increasing oil payloads on the long haul around the Cape from the Middle East, the idea of towing bulk liquid

cargoes in sausage-like, floating containers originated during the Suez crisis. Trials of prototype containers had been carried out in coastal waters. The stage had been reached where it was desirable to carry out a full-scale trial, transporting a cargo under commercial conditions to an export destination.

Many of the petroleum chemicals which the Heavy Organic Chemicals Division manufactures and exports in large-tonnage shipments are lighter-than-water. For instance, plasticizer alcohols, such as iso-octanol, and solvents, including acetone, isopropyl alcohol and isobutyl alcohol.

Constantly seeking more economical methods of distribution, the Division therefore arranged to ship the trial cargo of liquid hydrocarbons.

Dracone D.4, which has a carrying capacity of 40 tons, was selected for the job. The skin, about 0.15 in. thick, is of woven nylon fabric, proofed inside with oil-resistant acrylonitrile-butadient rubber and outside with neoprene, which is highly resistant to abrasion and weathering. The combination is extremely strong.

Loading was from road tankers at the I.C.I. wharf at Billingham. "Dracone D.4" was unwound from the reel on which it had been transported to Billingham by truck. It was filled through a pipe connection as it lay on the water.

Towed by the ocean-going tug "Fiery Cross" of Middlesbrough, Dracone D.4 sailed for Flushing. The 260-nautical mile voyage was completed at an average speed of 6.8 knots.

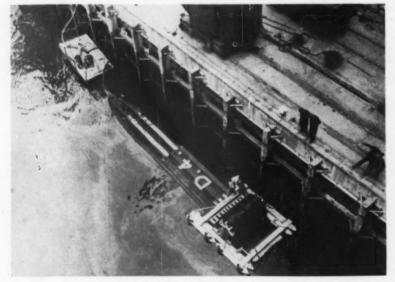
So that I.C.I.'s shipping and technical experts could examine all phases of the handling, unloading was not carried out at Flushing. Instead Dracone D.4 was returned to Billingham to discharge her cargo into rail tankers.

The Tess Towing Co., owners of "Fiery Cross," reported that, although the tug experienced a good deal of rough water, there were no serious problems. The tow-rope loading was far less than they had expected. The Dracone towed throughout in a perfectly docile manner, without yawing or snatching.

Lt. Col. H. G. Hasler, operations manager of Dracone Developments Ltd., commented that most of the problems are licked now.

Transportation of chemical cargoes in these containers appears, therefore, to be practicable. It should be possible for a normal cargo vessel to take the containers in tow without materially increasing fuel costs, or reducing speed or conventional payload.

Dracone D.4 being emptied and reeled after its return to wharf at Billingham, England. Flexible vessel made successful trial run to Flushing, Holland





Almost as fast as you can say "warehouse portability," two interchangeable tubular steel frames snap onto your regular warehouse pallet, creating a lightweight, portable rack that supports thousands of pounds.

Two curved pins lock the frames rigidly at the top. In seconds, you have a portable rack...without special parts or attachments of any kind.

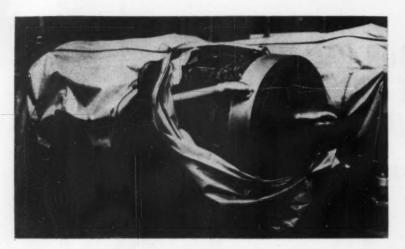
These portable Tier-Racks enable you to operate with fewer aisles, use all your "air space," and alter your layout as fast as warehouse conditions change.

See how you can gain more storage space in your present warehouse...plus portability, too.



TIER-RACK CORPORATION
122 N. 7th St. St. Louis 1. Mo.

Send for Free Brochure



## Chuting the News . . .

(Continued from Page 10)

#### **News Briefs**

H. R. Cump, president of the Canadian Pacific Railroad, testifying in a hearing before the Presidential Commission on Railroad Work Rules, reported that operation in Canada of diesel locomotives without firemen has been completely satisfactory from every standpoint. He appeared in support of a U. S. Railroad proposal to eliminate the firemen's position from diesel freight and yard engines.

A leasing program which entitled any qualified bakery flour miller to operate an Airslide flour trailer on a five-year contract has been announced by the Fruehauf Trailer Co., Detroit.

Twenty new 40-ft refrigerated trailers, ten heavy-duty solid-side, opentop 40-ft trailers, and fifteen dieselpowered White tractors have been delivered to Interstate Motor Lines, Inc.

T.O.F.C., Inc., combining truck-rail facilities, has been organized to finance, construct and operate piggyback or trailer-on-flat-car loading and unloading terminals. Fifty per cent of the company is owned equally by six of the larger motor carriers in the U. S .- Cooper-Jarrett, Inc., Chicago; Denver-Chicago Trucking Co., Denver; Eastern Express, Inc., Terre Haute, Ind.; Midwest Emery Freight System, Inc., Chicago; Interstate System, Grand Rapids; and Spector Freight System, Inc., Chicago; and fifty per cent by The Rail-Trailer Co., Chicago. The Erie-Lackawanna Railroad has joined with T.O.F.C.

Ringsby Truck Lines, Inc., with the approval of the ICC, has completed the purchase of Arizona-Pacific Tank Lines, a California-based bulk commodity hauler.

Plans for a 647-mile addition to its microwave radio facilities were announced by Union Pacific Railroad. The road now uses microwave radio in its communications system between Omaha, Nebr., and Laramie, Wyo. It will be extended to Salt Lake City. Another installation will be between Portland and Hinkle, Ore.

The Alaska Steamship Co. container service has been expanded to include another steamship, the Fortuna. After a \$100,000 "containerization" face-lifting, it joined the Chena, Nadina, and Iliaman in providing biweekly sailings from Seattle for Seward, Anchorage, and Fairbanks.

The New York Central System has completed a \$4.5 million modernization program at its West 60th St. freight yard.

#### Flexible Plastic Containers

Zippered and flexible plastic containers can hold a vacuum or pressurization. Cost of storing Rolls-Royce engines is cut by this method. Driclad, an English invention, is marketed by Navan Products, Inc. The containers are fabricated from different barrier materials according to the degree of vapor-proofing required.

#### **NITL Calls for Caution**

The National Industrial Traffic League has urged reasonable safeguards at dual rates hearings before the Special Subcommittee on Steamship Conferences. Grant Arnold, chairman of the League's Special Committee on Study of the Shipping Act of 1916, told the Subcommittee that the League generally believes the H.R. 4299 provides a framework for a conference method of determining and publishing ocean rates and a contract system of dual rates, with safeguards for the shipping public. He said some amendments are required.

#### **ARBWA Elects New Officers**

New president of the American Red Ball Warehousemen's Association is Donald R. Miller, president of Dayton Transfer Co., Dayton, Ohio. Other officers elected by the directors are Buford Owen, president, I. C. Deere Transfer and Storage Co., Dallas, vice president; William Miller, president, Anderson Brothers, Chicago, secretary; and Charles Valla, president, Santini Van Co., New York, treasurer. (Please Turn to Page 76)

Mover Executives Lauded



Moving and storage company executives are awarded citations for 1960 Aero Mayflower Transit Co. sales records. Placing in top 10 among 670 agents were (l. to r.) Arthur C. Smith, Jr., Washington, D. C.; Jack C. Robbins, Denver; Robert L. Dunne, Boston; Sidney Wald, Houston; Virgil Sloan, St. Louis; A. H. Naish and Alex S. Naish, Cincinnati; W. N. McKinney, Dallas; Paul C. Moellering, Detroit; and W. Neil Conatser, Cleveland. Citations were presented by Aero Mayflower president, John Sloan Smith in background



Inc., Burlington, Wis., considers Macks an all-important part of both its liquid-foodstuff hauling fleet (shown here) and its petroleum and chemical transporting affiliate, Bulk Transport. Quality just recently opened its new Chicago terminal . . . and has inaugurated a new method of handling dry bulk commodities in pressure vessels unloaded by air.

#### Burlington, Wisconsin, carrier stresses

# **QUALITY** in name..service..and equipment

In 1939 Lee Barney and Pat Torhorst were a couple of aggressive young men with a one-truck garage, lots of ambition and a dedication to give their customers the best job they knew how. Today, as QUALITY CARRIERS, INC., over 200 stainless steel tank trucks bearing the Quality name operate from a network of terminals to every corner of the U.S. east of the Rockies.

Lee Barney and Pat Torhorst have built Quality Carriers, Inc., into one of the finest liquid and dry bulk operations in the country. They did it through use of modern methods and equipment . . . and an insistence on living up to the name QUALITY in every phase of their far-flung operation.

Herman Pearce, Vice President and General Traffic Manager, puts it this way. "You don't try to cut corners on quality when your operation depends on the performance of your equipment. We've got 105 Mack Thermodyne® diesel tractors in our fleet, and we're adding more all the time. If a better truck ever comes along we'll buy it—but as of now, Macks are doing the job the way we want it done."

Take a leaf from the book of a successful carrier like Quality and put Macks to

work hauling your perishable cargoes. For dependability and unmatched economy you can't surpass a Mack. The Mack branch or distributor nearest you will be glad to show you performance records of others who have found a profitable difference in Macks. Mack Trucks, Inc., Plainfield, New Jersey. Mack Trucks of Canada, Ltd., Toronto, Ontario.

MACK FIRST NAME FOR TRUCKS



#### Chuting the News . . .

(Continued from Page 10)

#### Freedom for Railroads by Merger Seen by Rail President Saunders

Diversification, mergers, and technological advances were cited by a railroad president recently as developments which could free the transportation industry for a new and invigorating role in the national economy.

Stuart T. Saunders of the Norfolk and Western Railway, delivering the Annual Saltzberg Lecture at Syracuse University, told some 125 transportation specialists that the "merger movement must keep moving ahead. Mergers must not be stalled or delayed by the short-sighted opposition or rival railroad managements or unstatesmanlike opposition of railroad labor."

Saunders said that mergers will go "a long way toward eliminating the inadequately utilized facilities that drain away money and produce inefficiency."

#### Movers Get New Techniques

New techniques in moving and storage were a main attraction of the recent American Red Ball Transit Co. Annual Convention. The meeting was held to instruct agents in new techniques through a series of seminars.

#### ICC Decides "Sealdtank" Case

The Interstate Commerce Commission has decided that certain motor common carriers of general commodities, except commodities in bulk or those requiring special equipment, have the right to transport flowable, fungible commodities when tendered in collapsible and stackable containers. Tank truck carriers are authorized to transport such commodities when tendered into a premounted C&S container, whether supplied by the carrier or shipper.

#### Hansen Elected President of ACW At Record Denver Meeting

T. L. Hansen is the new president of the American Chain of Warehouses, Inc. He is president of Hansen Storage Co., Milwaukee, Wis.

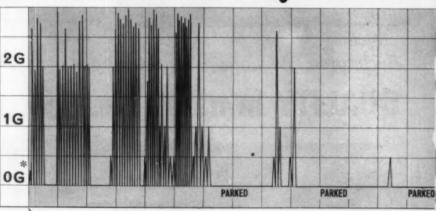
Other newly-elected officers include C. B. Payson, treasurer and general manager, Farnsworth Merchandise Storage Co., vice president; W. E. Seeley, general manager, Midland Warehouses, Inc., secretary-treasurer. John W. Terreforte was re-elected executive vice president.

#### **NVA Names New Directors**

At the Annual Directors Meeting of National Van Lines, Inc., Frank L. McKee, Mrs. E. D. McKee, A. F. Schertzberg, Duane N. Quamme, Mrs. E. C. Burns, and E. J. Apcel were elected to the board of directors. Quamme was made vice president and Apcel was named treasurer. Mrs. Burns is treasurer.

# **Electronic Stowaway Proves**

RCA's recording
of a New Jerseyto-Sweden shipment
tells the smooth
"inside" story of
Clipper Cargo handling



LOCAL DELIVERY TO IDLEWILD

What you see here is the story of the complete journey of a DC7F all-cargo Clipper+ shipment from RCA in Gloucester, N. J. to a bank in Stockholm, Sweden.

Unknown to Pan Am, an impact recorder was "planted" within the shipment, registering every bump and vibration. That's what those jiggles are. This was the first

RCA 501 all-transistor computer system ever sent to Europe. Value: \$700,000. RCA wanted to be sure it was handled with care.

What's more, RCA wanted to prove that Clipper Cargo is a smooth, practical way of shipping. Their own recording showed it. As you can see, the all-cargo flight itself

#### Trucking Firms to Get Boost From SBA's New Loan Rate

The comptroller of the American Trucking Associations, Inc., has pointed out that Small Business Administration funds borrowed by trucking firms will be used to revitalize their operations.

George H. Minnick said that the additional spending will automatically improve the unemployment situation in the depressed areas concerned. He emphasized that the SBA had cut much red tape with regional SBA offices making direct loans of up to \$50,000 to any one firm.

The previous limit was \$20,000. Trucking companies which gross less than \$4 million annually are eligible for the new rate.

#### **AWC Holds Annual Meeting**

Affiliated Warehouse Companies, Inc., held its 8th Annual Meeting recently in Denver. The 1961 Membership Directory is now available.

#### September Meeting for AST&T

The 16th Annual Meeting of the American Society for Traffic and Transportation will be held in Philadelphia, Sept. 6-7. A special commemorative seminar will be held at the University of Pennsylvania in honor of Dr. G. Lloyd Wilson.

Europe will not accept the proposed container standard of 8-ft widths and 8-ft heights. This is the warning of John R. Immer, delegate for North America to the International Container Bureau. Opposition is based, in part, on a desire to limit road transportation as a way to reduce highway casualties.

#### **ATC Updates Convention**

The dates for the forthcoming Annual Meeting of the Associated Traffic Clubs of America were advanced one week. The new dates are Sept. 10 through 12. Change avoids conflict with a meeting of the National Defense Transportation Association.

#### NRMA Traffic Group Names Vantine Chairman, Hears Speakers, Panels

Robert E. Vantine was appointed chairman of the Transportation Committee of the National Retail Merchants Association at the group's 40th Annual Conference.

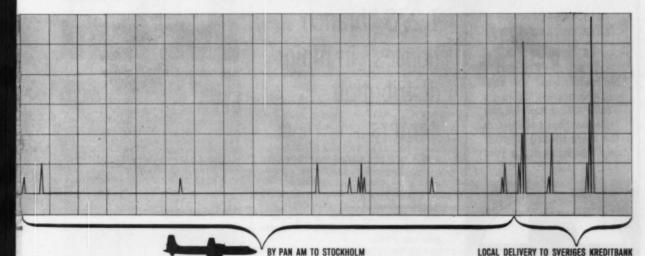
Vantine, traffic manager, Bloomingdale's, N. Y., has as vice chairman Myron Engelisher, traffic manager, Allied Stores Corp., New York. The three-day meeting was filled with panels and other group-oriented discussion on profit making and saving techniques.

Among the papers delivered was one on warehousing by William Sweeney, Jordan Marsh Co., Boston. He recommended that his audience beware of elaborate permanent equipment installation. "Confine yourself to equipment on wheels, forks, wheel trucks, and dollies," he said.

Other speakers covered data processing, order checking problems, and minimum shipments.

(Resume Reading on Page 13)

# Pan Am"Handles with Care"



was the smoothest part of the entire journey, door to door. RCA was so impressed they showed Pan Am the recording.

It's a good case to keep in mind when you have an overseas shipment demanding special care. Call your cargo agent, freight forwarder or Pan Am first thing. What's a G?

A measure of force in which a moving body meets a reacting force equal to its own weight.

Example: the vibration you feel when walking is approximately equal to 1 G.

7Trade Mai

PAN AM
CLIPPER
CARGO
ANAGENE MOR LOPERCOD MAN



#### For shipping cheese



or keys



or pine trees

# The better way is Santa Fe

No matter what you ship call the nearest Santa Fe Traffic Office and let the "railroad that's always on the move toward a better way" go to work for you.



## Handling Costs . . .

(Continued from Page 38)

people take a look at their overall operation from the vendor on through.

3. Examine closely the transfer points of materials. At receiving, it may be practical to transfer materials from cartons to standard containers or from big containers to smaller ones. Or the transfer may be from conveyors to trucks, tractors, or trailers. Make transfers as easy as possible.

4. Points of accumulation. Consider receiving, trailer trucks, and storage. Move materials out of processing operations, set up a controlled storage area. Then every square foot of production area will pay back dollars.

5. Control of all factors. Production, over-runs, and inventory should be controlled. Schedule materials movements as you would a machine shop operation.

6. Conversion of movement from

one type of materials handling system to another. There are many things which can be done in engineering the layout to help with this type of movement.

7. Perimeter feeding. A new concept of stocking, this system calls for delivery of components to the outer perimeter of the machines or assembly operations. The materials flows from the outside into the work area.

8. Plan for 75 per cent utilization of all equipment or a system. Now generally, when you talk about setting up a materials handling system, your people will discuss only the unusual jobs. The things uppermost in their minds are the exceptions—why a piece of equipment will not do the job. The machine tools or the processing equipment in almost any plant work only 60 to 70 per cent efficiently. Therefore, if you can

# Now available: 1,273 "branch houses" in major distribution centers

AWA offers instant warehousing everywhere—for your new products and changing markets. For flexibility and economy, public warehousing is the profitable answer. Investigate the competitive advantages of the AWA Pay-as-you-use Plan.

Write for Free Directory listing locations and space availabilities to fit your needs

512 Members Offering 1,273 Distribution Centers, Merchandise Warehouses & General Storage Facilities

American Warehousemen's Association 222 W. Adams St. • Chicago 6 • Randolph 6-5550

#### NARW Elects New Officers



New officers of the National Association of Refrigerated Warehouses are shown (l. to r.) W. B. Haggerty, president, Tampa Cold Storage and Warehouse Corp., Tampa, Fla., vice-president; Garth A. Shoemaker, executive vice president-treasurer, Hygeia Refrigerating Co., Elmira, N. Y., president; and W. L. Baker, vice president-treasurer-general manager, The Seattle Ice and Cold Storage Co., Seattle, Wash., treasurer

#### Fork Lift Plant Opens



As part of a multi-million dollar expansion program at Hyster Co., that company has completed a large addition to its manufacturing facilities at the Danville, Ill., plant. Additional plant area totals 115,000 sq ft handle materials on your system 75 per cent of the time, you have a good system. The other 20 to 25 per cent will have to be carried in some other unusual way.

Most companies shun an analytical approach to their problem. The misapplication of equipment comes about many times when unknown facts or factors enter a problem.

There is a close relationship between the industrial engineering function and materials handling. We need only to take some of the engineer's tools and procedures for adaptation to handling problems.

1. Flow charts with a diagram. Develop a flow chart. Show all procedures step-by-step.

2. A questionnaire-type check list. This stimulates thinking.

3. Travel charts. These give a relationship—the number of movements between various departments.

3. Travel charts. These give a relationship—the number of movements between various departments. For instance, take the receiving department. You may need to know how much material is received there, how many times material is moved from receiving to raw materials warehousing, from receiving to the machine shop, from receiving to other areas of the plant. The travel chart will show the relationship between

Sofas Boxed Easily



Bruce-Mayflower Moving and Storage Co. has come up with an answer for storing sofas so that they will remain protected from dust, soil, and damage. The sofas are placed in large, lightweight, 8 ft x 4 ft x 4 ft palletized containers of Ply-Veneer—a paper overlaid veneer panel material. The box with smooth kraft linerboard panel surfaces will not scratch or mar furniture. Klimp fasteners allow quick assembly and knock-down. The Silvatek Division of Weyerhaeuser Co., makes Ply-Veneer

various departments so the layout can be planned accordingly.

4. Ratio delay studies. These are similar to work sampling studies as used by a quality control department. Observe an operation at random times over a specified period. This will give a reliable estimate of time spent.

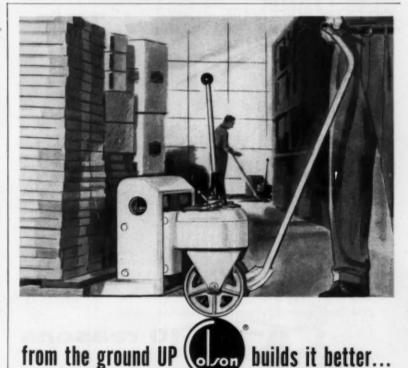
5. Elemental standard times. Several recent publications give standard time data which tells you how many feet per minute a truck will travel. Figures also are available on how long it takes a man to walk a given number of feet, pick up a package, move it, and set it down.

6. Motion economy. Work simplification.

7. There are other forms for collecting data and facts. In addition, you can develop some of your own.

8. There are standard charts for specifications, engineering tables of all types, and many other pieces of literature to fit specific analysis needs.

(Resume Reading on Page 40)



Colson pallet trucks the finest you can buy...for quality, ease of operation, and money-saving efficiency. From casters to completion, each part is

carefully designed and precision engineered.

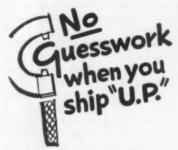
Colson's new 2500 and 4000 lb. capacity single and double face hydraulic leverlift pallet trucks feature exclusive roll-o-cam entry device which eliminates sliding and skidding. Spring-counter balanced handle, simple hydraulic pump and special design make them the easiest handling pallet trucks available. Write for free catalog to find out how you can save when you

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#### IDP shakes . . .

(Continued from Page 68)

cycle. Management has been freed of a vast bulk of detail work. In this concept of computer usage, the computer handles the routine day-by-day operations, and management makes decisions on exceptions to the norm.

#### Multi-Van Container Plan



Multi-van container/trailer system used by REA Express to shuttle consolidated shipments between New York and terminals at Garden City, Brentwood, and Riverhead, Long Island, provides 20-footers for dropoff or pick-up. Forty-feet combinations are used for over-the-road transport. Highway Trailer Industries makes the equipment for maximum interchange of containers

For the first time, Purex has established firm control over our tremendously complicated production and distribution operations. While there are no actual figures that the company can point to at the moment, it is certain that the improved efficiency and firm control achieved through the use of electronic data processing will result in sizable savings.

Purex is now beginning to program the system to control the shipments of our products from the warehouse to the customer, an operation of fantastic complexity. In addition, plans are being formulated to add the complete general ledgers of six subsidiary companies to the computer's memory so that consolidated statements can be made.

(Resume Reading on Page 72)

#### Warehouse Salutes Employes



Three diamond studded white gold wristwatches were presented by Kencroft Warehouse, Buffalo, N. Y., to employes with 49-years of exemplary service in the organization. R. T. Rycroft, president and an employee of 49 years, presents a watch to Miss Leanore Delaney. Miss Delaney has been with the company 50 years. She is flanked by Miss Emily Linner (left) and Miss Emma Krans, both employees for 49 years

#### Pneumatic Tank Car



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Let your dealer show you the many other features of these better-than-ever trucks. Allis-Chalmers, Milwaukee 1, Wisconsin.







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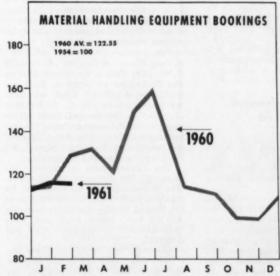
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#### WAREHOUSING

Is a warehouse a public utility even though it only serves selected customers?

A court held some time ago that a warehouse company is not a public utility if it restricts its business to selected storers of merchandise.

For instance, in P—— V—— C—— S—— C—— v. P—— U—— C——, 352 Pac. (2d) 721, a state law was litigated. It provided that a "ware-houseman" includes every corporation or person owning, controlling, operating, or managing any building, structure, or warehouse, in which

merchandise is regularly stored for the public generally for compensation.

The question presented the court was whether a warehouse company is a public utility under another state law which provides that a "regular" warehouseman is a public utility.

During the trial testimony was given that the warehouse company's basic purpose was to store apples of its special members who had a vested right to an aliquot part of storage space and to storage services at cost. During a part of the off season the warehouse company rented all its cold storage space to one customer, and during the remainder of off season space was unused and the warehouse company turned down other offers to rent space to outsiders.

This higher court held that since the testimony discloses that the warehouse company did not accept or solicit "outside" business it, therefore, was not a public utility. This court said:

"From the foregoing evidence, it is clear that the warehouse company is not a public utility as a warehouseman. . . ."

# May the owner of damaged goods recover without proving negligence?

The owner of damaged or deteriorated merchandise may recover damages from the warehouseman who stored the goods, without proving negligence.

For illustration, in W-- v. W-- C- 353 Pac. (2d) 979, the testimony showed facts, as follows: A man named W- delivered to a warehouse company certain barley for storage. The agreement was that the warehouse company would store the barley and deliver the same on demand of W---. Upon delivery, at a later date to W--, the barley was deteriorated, and its value was 201/2 cents per bushel less than when it was placed in storage, and as a result of which W- was damaged in the sum of \$4443.54.

Without requiring W- to prove how the barley was damaged or deteriorated, the higher court held the warehouse company liable to W\_\_\_\_, saying:

"Whether or not the barley . . . went out of condition while in the defendant's (warehouseman's) possession, are not matters material to the allegations."

#### How can a warehouseman avoid liability if his warehouse is flooded?

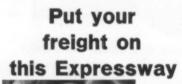
A review of higher court decisions discloses that usually a warehouseman is not liable for goods damaged by flood waters unless the testimony proves that he failed to exercise an "ordinary degree" of diligence and care to prevent the damage. Any neglect to safeguard the stored goods in face of a warning of impending flood danger is sufficient to ultimately result in the warehouseman's liability. His failure to use reasonable care to remove the stored goods from floodwaters results in his liability.

For instance, in the case of P—B— W— C— v. A—, 20 S. W. (2d) 633, it was shown that in the first days of April a flood began. On April 13 flood warnings were sent out by the U. S. Weather Bureau. In the face of these warnings a warehouseman failed to remove goods from the lower floor of the warehouse building. Hence, the flood waters damaged the goods.

The owners sued to recover the value of the damaged merchandise. The warehouseman insisted that he was not liable because the damage to the stored goods was caused by an Act of God, which could not have been averted by ordinary care and diligence.

However, in view of the above testimony that warnings of the impending flood had been broadcast, the court held the warehouseman liable.

For comparison, see M—v. U—, 131 S. W. (2d) 469, and also, G—F—, 32 N.Y.S. (2d) 682. In both of these cases unusual floods were caused by unexpected rising waters which caused damage to stored goods. The warehouseman was held not liable.





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#### **TRANSPORTATION**

What role does public interest play in granting carrier permits?

Last month a higher court held that a public service commission may issue a new permit to a warehouse and transport company to transport household goods and furniture, if the "public interest" will be benefitted.

For illustration, in B—v. T—T—and S—C—, 352 Pac. (2d) 240, the testimony showed facts, as follows: A man named B—made application to the Idaho Public Utilities Commission for a permit to transport household goods within the state. Several holders of permits, including the T—T—and S—C—, protested B—'s application on the grounds that the other common carriers in the area are now engaged in transporting household goods. They claimed to provide adequate service.

The testimony showed rapid population growth in the area; permanency of military installations; and lack of aggressive competition in the field of household moving. In view of this testimony, the higher court awarded B—— a permit. It said:

"Inasmuch as local services in other types of business activity had increased because of the increase in population, so too, would the demand increase for local household movers, because of the large number of transient-type families living in, and moving in and out of that area."

For comparison, see M—v. V—E—, 178 P. (2d) 382. This higher court held that the commission is not charged with the duty of protecting common carriers competing in the open market, or their economic loss or gain. Instead it is required to consider the interest of the public. Then it should determine whether good cause has been shown and a new permit issued.

With respect to the legal definition of the term "public interest," see P— L— v. F—, 159 P. (2d) 162. This court said:

"'Public interest' is not susceptible of precise definition. The principle inherent in public interest, requires that 'the people be adequately served'."

#### Can a warehouseman collect storage charges for services not specified by the owner?

The higher courts consistently hold that a warehouseman may collect charges for storage, and services rendered on merchandise, not specifically ordered by the owner of the merchandise. However, testimony must show several facts. They are: (1) the owner of the goods was informed that the warehouseman was performing the storage and other services; or, (2) if the owner of the goods either verbally or in writing authorized another person to order the warehouseman to perform the storage or ser-

vices; or (3) if the employe of the owner of the goods ordered the warehouseman to perform the services, without knowledge or authority of the owner of the goods and subsequently the owner ratified or approved the contract; or (4) if a lease contract existed between the owner of the goods and the person who ordered the warehouseman to perform the storage and other services; or (5) if the warehouseman replaces the goods in storage, without knowledge of the owner, for the purpose of safeguarding the goods, as where a building burns and the goods are taken from the burning building and set on the sidewalk.

# What is the actual authority of a public utilities commission?

A review of higher court law suits discloses that in the last 60 years public service commissions have attained a very important part in regulation of affairs both state and national. These commissions are given broad powers in the administration of the affairs submitted to them, and it is practically universally held that in so long as a commission does not fraudulently, arbitrarily or capriciously administer affairs, their discretion will not be disturbed by a court.

Recently a higher court held that a public service commission is an administrative body and not a court and (Please Turn to Page 107)



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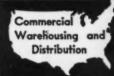
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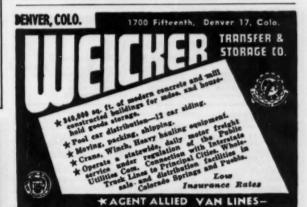
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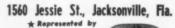
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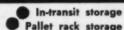
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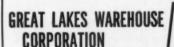
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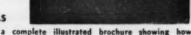
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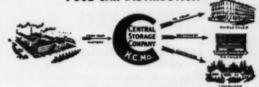
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#### Within the Law...

(Continued from Page 83)

that no court should substitute its judgment for that of the commission.

For illustration, in A—— T—— v. H—— F——, 337 S. W. (2d) 5, the testimony showed these various facts: Certain common carriers filed a petition with the Public Service Commission to transfer a certain number of certificates of convenience and necessity, which had been granted them, to the A—— T—— I——

The commission refused to transfer these certificates. The lower court reversed the commission. An appeal was filed with the higher court, which approved the commission's verdict, saving:

"This body . . . is an administrative body and not a court, and we, as a court, should not substitute our judgment for such an administrative body."

This higher court also held that in issuing certificates of convenience and

necessity to motor carriers, the Public Service Commission must take into consideration predominant consideration of 'need' of people, and not that of contending and competing carriers operating over the highways.

What is the law concerning fixed fees for common carriers?

A higher court recently held that a compensatory fixed fee, charged by a common carrier for regular periodic pickup stops at the shipper's place of business, is not unreasonably discriminatory.

For instance, see R— E—A—v. W— P— S— C—, 354 Pac. (2d) 711. The P— S— C— authorized issuance of a permit to the U— P— for operation as a common carrier in western Washington and part of eastern Washington and part of eastern Washing-

ton. The permit covered the intercity carriage of packages not exceeding 50 lb or 108 in. in length and girth, combined. The order also approves U—— P——'s proposed rates, including a \$2 weekly service charge to be paid by all shippers desiring to have U—— P——'s trucks make regular daily stops at the shippers' places of business.

Issuance of this order was protested by several other common carriers. They charged rate discrimination, unfair competition, and unlawful common carriage.

Nevertheless, the higher court approved the order, saying:

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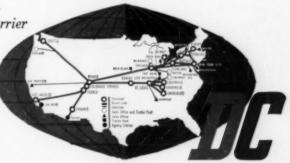
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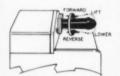
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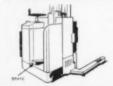
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